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# STATISTICAL YEAR BOOK

# OF THE ELECTRIC UTILITY INDUSTRY/1980

Published November 1981/Number 48

**EDISON ELECTRIC INSTITUTE** The association of electric companies
1111 19th Street, N.W.
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# Publications Prepared By The Statistics Department Edison Electric Institute

**Analysis of Fuel For Electric Generation: Fuel Burned Under Boilers and By Internal Combustion Engines.**
Fossil fuel data are presented by state, Census Division and total United States, by type of fuel burned (coal, oil and natural gas) under steam boilers and by internal combustion engines. Costs per kilowatt-hour, by fuel type; generation; and thermal heat content are provided for the current and four preceding years. Published annually in the fall. 9 p.

**Year-End Electric Power Survey.**
Reports results of survey conducted as of December 31, 1980, and seven years of past history. Covers the total electric utility industry of the contiguous U.S., including investor-owned systems, rural electric cooperatives, government owned. Power supply data including peak loads, capability to meet loads, kilowatt-hour requirements, load factors, and comparison between summer and winter seasons. Also contains three years of history on the manufacture of heavy electric power equipment showing quarterly orders, shipments, and backlogs of ordered equipment. Published annually in the spring. 40 p.

**Annual Electric Power Survey.**
Reports results of survey conducted as of April 1, 1981. Contains one or two years of history and ten-year projections on fuel use, capabilities, peak loads, and reserve margins (all for both the summer and winter seasons for each of the nine reliability councils and for total contiguous U.S.), and annual kilowatt-hour requirements and resulting load factors. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems, orders and shipments during the first quarter of the year and backlogs as of April 1. Scheduled generating additions by region are individually identified in an appendix. Published annually in late summer. 48 p.

**Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.**
Complete reference of investor-owned company names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate customers is presented. Published annually in the winter. 50 p.

**Digest of Utility Financial Ratios.**
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28 p.

**EEI Pocketbook of Electric Utility Industry Statistics.**
A pocket-sized quick reference of national electric industry data; some dating from 1902 to the present. Categories include data on installed capacity and generation; capital and finance; sales, revenue and customers; fuels; private and public ownership. Published annually in late fall. 37 p.

**Glossary of Electric Utility Terms.**
Provides definitions of principal statistical reporting terms commonly used in the electric utility industry. Good reference for utility personnel and people interested in preparation and interpretation of utility statistics. Prepared by Glossary Subcommittee of the EEI Statistical Committee. 86 p.

**Statistical Releases.**
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S.; data for latest 50-week period and calendar year to date; latest monthly data for installed capacity generation and customer and sales information 2) Source and Disposition, issued monthly, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data for residential service 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Year Book 4) Statistical Year Book of the Electric Utility Industry.

**Statistical Year Book of the Electric Utility Industry.**
Data compiled from company reports, and other sources, on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee; published annually in the fall. 76 p.

**Order cards located in back of book.**

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## Scope and Coverage

Data in this publication are presented on several bases, gathered and compiled from various sources as indicated on page 3. The principal United States source of electricity is the total electric utility industry segment which includes all plants commonly referred to as contributing to the public supply. Industrial, railroad, and railway plants are operated mainly for their own use, but through interconnections with utility systems make some contribution to the public supply. Throughout the publication, complete information is given for the Total Electric Utility Industry, except in the Financial Section, where the dissimilarity between Investor-Owned Electric Utilities and others of the component groups would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are presented for Investor-Owned Electric Utilities only.

## 1980 in Review

The installed generating capacity of the electric utility industry for 1980 was 613,695,000 kilowatts, an increase of 2.5 percent over 1979.

**No. of units added during 1980**

| Hydro | Conventional Steam | Nuclear Steam | Internal Combustion |
|---|---|---|---|
| 9 | 43 | 1 | 5 |

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in steam conventional.

The electric utility industry continued to reduce its dependency on foreign oil for generating electricity. A comparison between 1980 and 1979 presents the following information:

- Generation of electricity for the total United States increased about 1.7 percent.
- Generation increased by 7.0 percent in the West South Central and 5.5 percent in the Mountain regions, while it decreased in the Pacific and East North Central regions about 3.2 percent and 1.9 percent, respectively.
- Generation by coal increased from 54.8 percent to 58.0 percent of total thermal generation (an increase of 8 percent in the consumption of coal).
- Generation by oil decreased to 12.2 percent from 15.4 percent of thermal generation (a reduction of approximately 19.7 percent in barrels of oil consumed).

Revenues from ultimate customers totaled $91.6 billion in 1980, an increase of approximately 18 percent over the previous year. Revenues from residential sales accounted for 39 percent of total revenues, while sales to commercial and industrial customers generated 28 percent and 29 percent, respectively.

Energy sales to ultimate customers totaled 2,095,333 million kilowatt-hours, an increase of less than one percent over the previous year. Although sales to residential and commercial customers continued to increase over 3 percent annually, sales to industrial customers declined approximately 3 percent during 1980.

Total ultimate customers, as of December 31, 1980, were 91,743,697 or an increase of 2.5 percent from a year earlier. Of this total, approximately 89 percent accounted for customers in the residential classification. The average annual bill per residential customer was $442.43 or 4.93¢ per kilowatt-hour consumed. Average annual residential use equalled 8,976 kilowatt-hours.

During 1980 electric operating revenues rose by 18.3 percent to $80.6 billion. The significant increase in operating revenues is due to a combination of an aggressive policy of rate relief requests by electric utilities and a greater recognition by regulatory authorities of the need for prompt and adequate rate relief. Also contributing to the record 1980 electric operating revenues were the effect of increases in fuel adjustment clauses where they were applicable and the gain in sales to ultimate customers.

The gains in electric operating revenues were more than offset by increased operating expenses resulting in lower electric operating income. Electric operating expenses increased by 19.0 percent to over $66.9 billion. The major component of operating expenses is the cost of fuel which increased 20.3 percent in 1980 to over $31.6 billion. Cost of fuel now represents 62.7 percent of the total operation and maintenance expenses, a minimal decrease from 1979 when it represented 63.5 percent of these expenses. Electric operating income of $13.7 billion represented 17.0 percent of total operating revenues, down slightly from the 17.5 percent reported in 1979 and the 20.4 percent reported in 1975.

The allowance for funds used during construction (AFUDC), a non-cash item, which is capitalized and for which a return will be received in the future, totaled over $4.6 billion in 1980. AFUDC as a percent of net income before preferred and common dividends was 44.0 percent, up from the 1979 percentage of 40.1.

Total interest charges aggregated $9,959 million, up 23.7 percent over 1979 reflecting not only the impact of increased debt issues and borrowing, but the higher interest rates experienced in 1980 and 1979. The imbedded interest rate on new long-term debt during 1980 has been estimated to be about 14 percent.

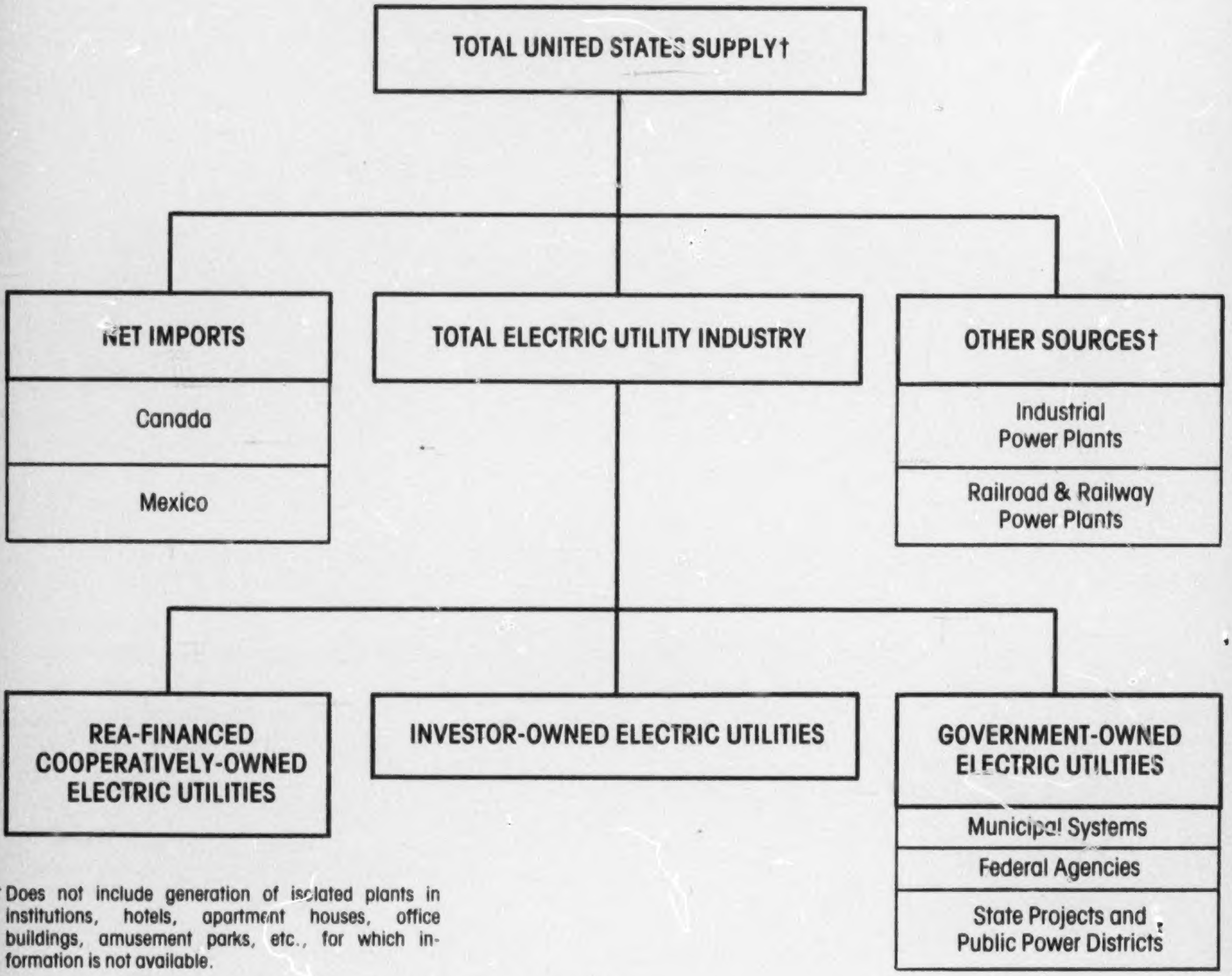
Since 1970, long-term debt as a percent of total capitalization gradually has declined from 55.3 to 50.4 percent in 1980. Correspondingly, common capital stock equity increased from 34.9 percent to 37.3 percent by year-end 1980.

Common stock dividend payout ratios reached a record 75.8 percent in 1980. Ten years ago the payout ratio was 68.0 percent, more in line with the traditional payout ratio of the industry.

The return on average common equity increased to 11.4 percent from 11.2 percent for 1979. However, the authorized rate of return on common stock equity for 1980 is estimated at about 14.2 percent. A reduction in regulatory lag time or forward test-year period in rate cases could reduce the spread between the allowed rate of return and the actual earned return. During 1980 the investor-owned electric utilities were granted a total of $5,932 million in rate increases on an annualized basis. This is more than double the $2,853 million granted in 1979 and indicates a greater awareness on the part of regulators of the industry's financial situation.

The investor-owned electric utilities raised $13.9 billion in new long-term financing, up 8.1 percent over the $12.9 billion raised in 1979. Of the total $13.9 billion in new money, 56.4 percent was represented by long-term debt, 29.2 percent in common stock and the remainder, 14.4 percent, was preferred stock. Additionally, the industry raised an estimated $800 million in new common stock as a result of the participation of stockholders in the Dividend Reinvestment Plans, which included not only the dividend reinvestment, but also supplementary cash contributions by the stockholders.

# UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP


TOTAL UNITED STATES SUPPLY†
NET IMPORTS
Canada
Mexico
TOTAL ELECTRIC UTILITY INDUSTRY
OTHER SOURCES†
Industrial Power Plants
Railroad & Railway Power Plants
REA-FINANCED COOPERATIVELY-OWNED ELECTRIC UTILITIES
INVESTOR-OWNED ELECTRIC UTILITIES
GOVERNMENT-OWNED ELECTRIC UTILITIES
Municipal Systems
Federal Agencies
State Projects and Public Power Districts

† Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

## SUMMARY

| | Total Electric Utility Industry | | | |
|---|---|---|---|---|
| | | | Change | |
| | 1980 | 1979 | Amount | Percent |
| **GENERATING CAPACITY – SECTION I (Kw in Thousands)** | | | | |
| Installed Name Plate at Beginning of Year | 598,443 | 579,312 | 19,131 | 3.3 |
| Added During Year | ..... | .... | .... | .... |
| Retired During Year | ..... | .... | .... | .... |
| Net Adjustments* | ..... | .... | .... | .... |
| Balance at December 31 | 613,695p | 598,443 | 15,252 | 2.5 |
| **ELECTRIC POWER SUPPLY – SECTION II (Kw in Thousands)** | | | | |
| Capability at Time of Summer Peak Load (Contiguous U.S.) | 558,539 | 545,328r | 13,211 | 2.4 |
| Non-Coincident Summer Peak Load (Contiguous U.S.) | 427,058 | 398,424r | 28,634 | 7.2 |
| Margin of Reserve (Contiguous U.S.) | 30.8% | 36.9%r | | |
| **GENERATION – SECTION III (Kwhr in Millions)** | | | | |
| Hydro | 276,039p | 279,790 | (3,751) | (1.3) |
| Conventional Steam | 1,755,634p | 1,708,256 | 47,378 | 2.8 |
| Nuclear Steam | 251,121p | 255,155 | (4,034) | (1.6) |
| Internal Combustion | 3,620p | 4,158 | (538) | (12.9) |
| Total Generation | 2,286,414p | 2,247,359 | 39,055 | 1.7 |
| Purchases from Industrial Sources | 7,576 | 6,034 | 1,542 | 25.6 |
| Imports from Canada and Mexico | 30,176p | 31,378 | (1,202) | (3.8) |
| Total Energy Input | 2,324,166p | 2,284,771 | 39,395 | 1.7 |
| **FUEL – SECTION IV** | | | | |
| Average Cost of Fuel per net Kwhr | 2.07¢ | 1.62¢ | 0.45¢ | 27.8 |
| Lbs. of Coal per Net Kwhr Generated | 0.980 | 0.981 | (.001) | (0.1) |
| Average Btu per Net Kwhr Generated | 10,489 | 10,470 | 19 | 0.2 |
| **ENERGY – SECTION V (BTUs in Quadrillion)** | | | | |
| Annual Production of Energy | 64.82 | 63.91 | 0.91 | 1.4 |
| Total Energy Supply & Disposition | 80.03 | 81.87 | (1.84) | (2.2) |
| **ENERGY SALES – SECTION VI (Kwhr in Millions)** | | | | |
| Residential | 720,784 | 694,266 | 26,518 | 3.8 |
| Commercial | 509,547 | 493,494 | 16,053 | 3.3 |
| Industrial | 791,241 | 815,586 | (24,345) | (3.0) |
| Street and Highway Lighting | 14,566 | 14,755 | (189) | (1.3) |
| Other | 59,195 | 61,120 | (1,925) | (3.1) |
| Total Sales to Ultimate Customers | 2,095,333 | 2,079,221 | 16,112 | 0.8 |
| Exports to Canada and Mexico | 2,997p | 1,849 | 1,148 | 62.1 |
| Energy Accounted for but Not Sold | 11,095 | 14,468 | (3,373) | (23.3) |
| Lost and Unaccounted for | 215,510p | 189,233 | 26,277 | 13.9 |
| Total Disposition of Energy | 2,324,935 | 2,284,771 | 40,164 | 1.8 |
| Kwhr Used per Customer (Average for Year) | | | | |
| Residential | 8,976 | 8,833 | 143 | 1.6 |
| Commercial | 53,646 | 53,135 | 511 | 1.0 |
| Total Ultimate Customer | 23,135 | 23,454 | (319) | (1.4) |
| **CUSTOMERS AT YEAR END – SECTION VII (Thousands)** | | | | |
| Residential | 81,339 | 79,392 | 1,947 | 2.5 |
| Commercial | 9,617 | 9,360 | 257 | 2.7 |
| Industrial | 485 | 477 | 8 | 1.7 |
| Street and Highway Lighting | 140 | 124 | 16 | 12.9 |
| Other | 163 | 161 | 2 | 1.2 |
| Total Ultimate Customers | 91,744 | 89,514 | 2,230 | 2.5 |
| **REVENUES – SECTION VIII (Millions of Dollars)** | | | | |
| Residential | $ 35,528 | $ 30,045 | $ 5,483 | 18.2 |
| Commercial | 25,961 | 21,720 | 4,241 | 19.5 |
| Industrial | 26,958 | 23,242 | 3,716 | 16.0 |
| Street and Highway Lighting | 1,031 | 896 | 135 | 15.1 |
| Other | 2,141 | 1,788 | 353 | 19.7 |
| Total Revenues from Ultimate Customers | $ 91,619 | $ 77,691 | $13,928 | 17.9 |
| Exports to Canada and Mexico | 39 | 8r | 31 | 387.5 |
| Total Revenues from Sales of Energy | $ 91,658 | $ 77,699r | $13,959 | 18.0 |
| Average Annual Revenue per Customer: | | | | |
| Residential | $ 442.43 | $ 382.24 | $ 60.19 | 15.7 |
| Commercial | $2,733.26 | $2,338.58 | $394.68 | 16.9 |
| Total Ultimate Customer | $1,011.57 | $ 876.38 | $135.19 | 15.4 |
| Average Revenue per Kwhr: | | | | |
| Residential | 4.93¢ | 4.33¢ | 0.60¢ | 13.9 |
| Commercial | 5.09¢ | 4.40¢ | 0.69¢ | 15.7 |
| Total Ultimate Customer | 4.37¢ | 3.74¢ | 0.63¢ | 16.8 |
| **ECONOMICS & OTHER – SECTION X** | | | | |
| Miles of Overhead Electric Line, 22 Kv and Above | 558,795 | 546,195r | 12,600 | 2.3 |
| Employees of Investor-Owned Electric Utilities | 476,600 | 463,000 | 13,600 | 2.9 |
| Plant Ratio-Kwhr Generated/Kw of Capacity† | 3,773 | 3,816 | (43) | (1.1) |

*Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.

†On basis of installed name plate capacity.

p Preliminary. r Revised. ( ) Denotes negative figure.

# SUMMARY

| | Investor-Owned Electric Utilities | | | |
|---|---|---|---|---|
| | | | Change | |
| **FINANCIAL – SECTION VIII (Millions of Dollars)** | 1980 | 1979 | Amount | Percent |
| COMBINED BALANCE SHEETS: | | | | |
| ASSETS | | | | |
| Utility Plant: | | | | |
| Electric | $265,233 | $241,401 | $23,832 | 9.9 |
| Accumulated Provision for Depreciation and Amortization | 53,324 | 49,161 | 4,163 | 8.5 |
| Net Electric Utility Plant | 211,909 | 192,240 | 19,669 | 10.2 |
| Nuclear Fuel | 6,704 | 5,788 | 916 | 15.8 |
| Accumulated Provision for Amortization of Nuclear Fuel Assemblies | 2,754 | 2,029 | 725 | 35.7 |
| Net Nuclear Fuel | 3,950 | 3,759 | 191 | 5.1 |
| Net Total Electric Utility Plant | 215,859 | 195,999 | 19,860 | 10.1 |
| Other | 14,673 | 13,775 | 898 | 6.5 |
| Accumulated Provision for Depreciation and Amortization | 4,502 | 4,130 | 372 | 9.0 |
| Net Other Utility Plant | 10,171 | 9,645 | 526 | 5.5 |
| Total Utility Plant | 286,610 | 260,964 | 25,646 | 9.8 |
| Accumulated Provision for Depreciation and Amortization | 60,58C | 55,320 | 5,260 | 9.5 |
| Net Total Utility Plant Including Nuclear Fuel | 226,030 | 205,644 | 20,386 | 9.9 |
| Other Property and Investment | 4,593 | 4,006 | 587 | 14.7 |
| Total Current and Accrued Assets | 25,928 | 21,644 | 4,284 | 19.8 |
| Total Deferred Debits | 5,064 | 4,465r | 599 | 13.4 |
| Total Assets | $261,615 | $235,759r | $25,856 | 11.0 |
| LIABILITIES | | | | |
| Capitalization: | | | | |
| Common Capital Stock | $ 32,616 | $ 29,179 | $ 3,437 | 11.8 |
| Other Paid-In Capital Excluding Retained Earnings | 20,509 | 18,538 | 1,971 | 10.6 |
| Retained Earnings | 24,865 | 23,035r | 1,830 | 7.9 |
| Total Common Capital Stock Equity | 77,990 | 70,752r | 7,238 | 10.2 |
| Preferred Stock | 25,755 | 23,881 | 1,874 | 7.8 |
| Total Long-Term Debt | 105,557 | 96,258 | 9,299 | 9.7 |
| Total Capitalization | 209,302 | 190,891r | 18,411 | 9.6 |
| Total Current and Accrued Liabilities | 29,564 | 25,990 | 3,574 | 13.8 |
| Total Deferred Credits and Operating Reserves | 9,317 | 8,347 | 970 | 11.6 |
| Contributions in Aid of Construction | 91 | 82 | 9 | 11.0 |
| Deferred Income Taxes | 13,341 | 10,449 | 2,892 | 27.7 |
| Total Liabilities | $261,615 | $235,759r | $25,856 | 11.0 |
| COMBINED INCOME STATEMENTS: | | | | |
| Operating Revenues – Electric Department | $ 80,636 | $ 68,152 | $12,484 | 18.3 |
| Operating Expenses Including Maintenance | 50,457 | 41,380 | 9,077 | 21.9 |
| Depreciation, Depletion and Amortization | 6,192 | 5,706 | 486 | 8.5 |
| Taxes | 10,269 | 9,127 | 1,142 | 12.5 |
| Total Operating Expenses | 66,918 | 56,213 | 10,705 | 19.0 |
| Operating Income | 13,718 | 11,939 | 1,779 | 14.9 |
| Other Income (Non-Operating) Net | 3,765 | 3,107 | 658 | 21.2 |
| Other Departments | 909 | 778 | 131 | 16.8 |
| Income before Interest Charges (Gross Income) | 18,392 | 15,824 | 2,568 | 16.2 |
| Total Interest Charges | 7,865 | 6,510 | 1,355 | 20.8 |
| Income before Extraordinary Items | 10,527 | 9,314 | 1,213 | 13.0 |
| Extraordinary Items | 2 | (12) | 14 | NA |
| Net Income | 10,529 | 9,302 | 1,227 | 13.2 |
| Preferred Dividend Charges | 2,042 | 1,750 | 292 | 16.7 |
| Available for Common Stock | 8,487 | 7,552 | 935 | 12.4 |
| Common Dividends | 6,429 | 5,587 | 842 | 15.1 |
| Net Income After Dividends | $ 2,058 | $ 1,965 | $ 93 | 4.7 |
| Electric Utility Financing: | | | | |
| Long-Term Debt | $ 8,308 | $ 7,862 | $ 446 | 5.7 |
| Preferred Stock | 2,011 | 2,364 | (353) | (14.9) |
| Common Stock | 4,063 | 3,356 | 707 | 21.1 |
| Total Capital | $ 14,382 | $ 13,582 | $ 800 | 5.9 |
| Construction Expenditures (Excluding Alaska and Hawaii) | | | | |
| Production | $ 17,847 | $ 16,908 | $ 939 | 5.6 |
| Transmission | 2,271 | 2,209 | 62 | 2.8 |
| Distribution | 4,336 | 4,076 | 260 | 6.4 |
| Other | 1,264 | 1,185 | 79 | 6.7 |
| Total | $ 25,718 | $ 24,378 | $ 1,340 | 5.5 |

( ) Denotes negative figure. NA Not Applicable.

rRevised due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings".

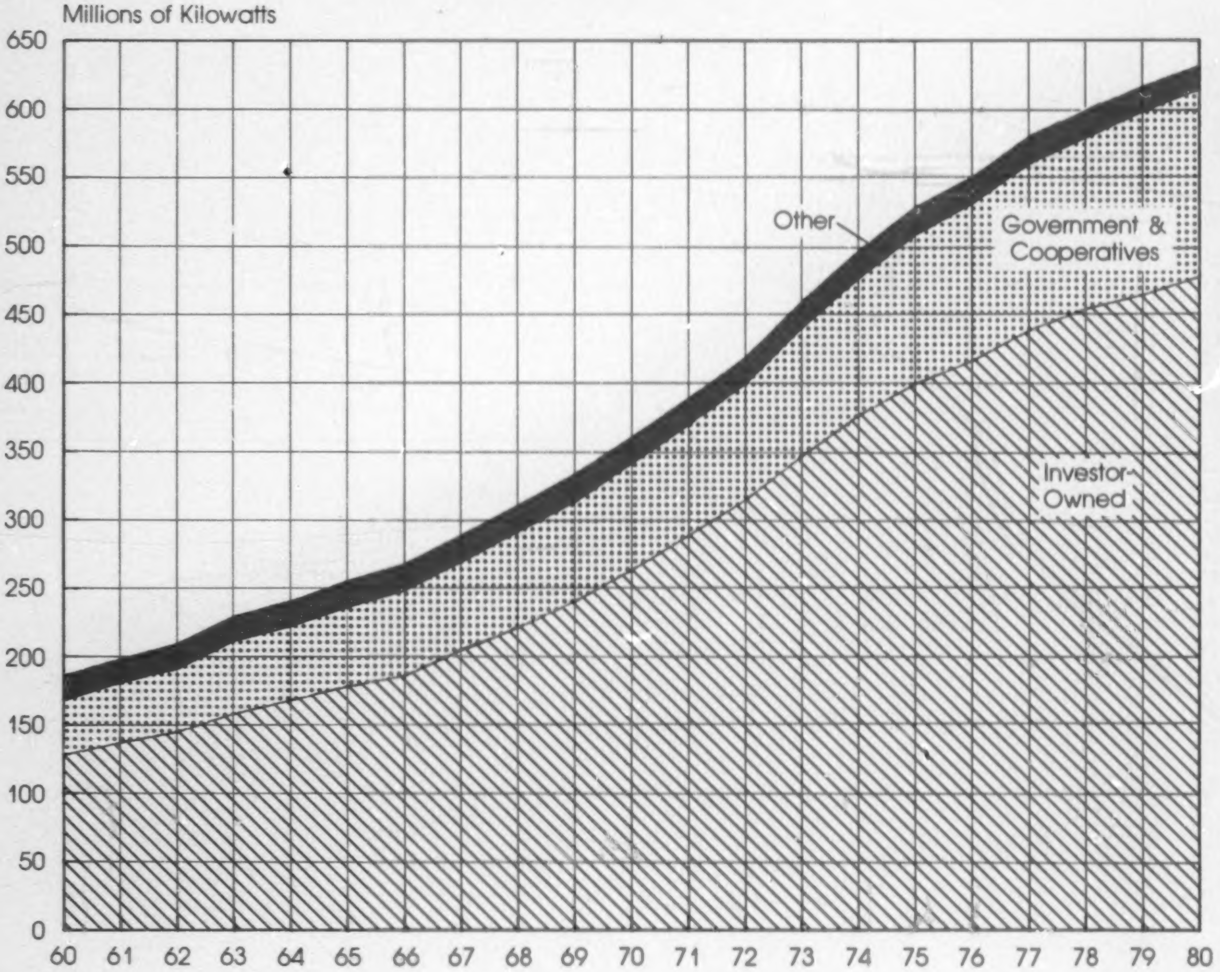
# GENERATING CAPACITY

## SECTION I

Chart I-A

### INSTALLED GENERATING CAPACITY

TOTAL UNITED STATES



Based on Table 1, page 7.
Source: Energy Information Administration

# TABLE 1
# INSTALLED GENERATING CAPACITY IN THE UNITED STATES*
## KILOWATTS IN THOUSANDS (NAME PLATE)

| December 31st | Investor-Owned Utilities | Government and Cooperatives | Total Electric Utility Industry | Other Sources** | Total United States |
|---|---|---|---|---|---|
| **1980p** | **477,083** | **136,612** | **613,695** | **17,323e** | **631,018** |
| 1979 | 464,144 | 134,299 | 598,443 | 17,436 | 615,879 |
| 1978 | 453,647 | 125,665 | 579,312 | 19,391 | 598,703 |
| 1977 | 438,385 | 121,976 | 560,361 | 19,245 | 579,606 |
| 1976 | 415,504 | 115,658 | 531,162 | 19,113 | 550,275 |
| 1975 | 399,036 | 109,378 | 508,414 | 19,177 | 527,591 |
| 1974 | 376,122 | 100,046 | 476,168 | 19,351 | 495,519 |
| 1973 | 346,476 | 93,399 | 439,875 | 19,377 | 459,252 |
| 1972 | 314,353 | 84,400 | 398,753 | 18,768 | 417,521 |
| 1971 | 288,301 | 80,779 | 369,080 | 19,297 | 388,377 |
| 1970 | 262,675 | 78,415 | 341,090 | 19,237 | 360,327 |
| 1969 | 240,078 | 73,271 | 313,349 | 19,257 | 332,606 |
| 1968 | 220,766 | 70,292 | 291,058 | 19,123 | 310,181 |
| 1967 | 203,580 | 65,672 | 269,252 | 18,933 | 288,185 |
| 1966 | 185,671 | 62,172 | 247,843 | 18,973 | 266,816 |
| 1965 | 177,570 | 58,557 | 236,127 | 18,393 | 254,520 |
| 1964 | 167,704 | 54,581 | 222,285 | 18,186 | 240,471 |
| 1963 | 158,448 | 52,101 | 210,549 | 18,208 | 228,757 |
| 1962 | 144,577 | 46,490 | 191,067 | 17,674 | 208,741 |
| 1961 | 136,749 | 43,919 | 180,668 | 17,750 | 198,418 |
| 1960 | 128,450 | 39,552 | 168,002 | 17,813 | 185,815 |

*Alaska and Hawaii included since 1963.

**Includes capacity of industrial, mine and railway electric power plants. Does not include the capacity of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

p Preliminary. e Estimated by EEI.

Source: Energy Information Administration.

# TABLE 2
# INSTALLED GENERATING CAPACITY—TOTAL ELECTRIC UTILITY INDUSTRY*
## BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
## KILOWATTS IN THOUSANDS (NAME PLATE)

| At December 31 | Total Electric Utility Industry | Investor-Owned Utilities | Cooperatives | Subtotal Government | Municipal Utilities | Federal | Power Districts, State Projects |
|---|---|---|---|---|---|---|---|
| **TOTAL (Capacity of Generators Driven by All Types of Prime Mover)** | | | | | | | |
| **1980p** | **613,695** | **477,083** | **15,422** | **121,190** | **34,598** | **59,083** | **27,509** |
| 1979 | 598,443 | 464,144 | 13,837 | 120,462 | 34,525 | 58,346 | 27,591 |
| 1978 | 579,312 | 453,647 | 11,635 | 114,030 | 34,426 | 54,282 | 25,322 |
| 1977 | 560,361 | 438,385 | 10,889 | 111,087 | 33,291 | 53,183 | 24,613 |
| 1976 | 531,162 | 415,504 | 9,947 | 105,711 | 30,602 | 51,707 | 23,402 |
| 1975 | 508,414 | 399,036 | 9,136 | 100,242 | 28,787 | 50,133 | 21,322 |
| 1974 | 476,168 | 376,122 | 7,474 | 92,572 | 27,324 | 45,518 | 19,730 |
| 1973 | 439,875 | 346,476 | 7,288 | 86,111 | 24,956 | 44,520 | 16,635 |
| 1972 | 398,753 | 314,353 | 6,704 | 77,696 | 23,049 | 40,408 | 14,239 |
| 1971 | 369,080 | 288,301 | 5,470 | 75,309 | 21,992 | 39,656 | 13,661 |
| 1970 | 341,090 | 262,675 | 5,162 | 73,253 | 20,941 | 38,718 | 13,594 |
| 1969 | 313,349 | 240,078 | 4,318 | 68,953 | 20,035 | 36,130 | 12,788 |
| 1968 | 291,058 | 220,766 | 3,434 | 66,858 | 19,429 | 34,956 | 12,473 |
| 1967 | 269,252 | 203,580 | 3,019 | 62,653 | 18,049 | 33,640 | 10,964 |
| 1966 | 247,843 | 185,671 | 2,758 | 59,414 | 16,548 | 32,608 | 10,258 |
| 1965 | 236,127 | 177,570 | 2,309 | 56,248 | 15,407 | 31,690 | 9,151 |
| 1964 | 222,285 | 167,704 | 2,017 | 52,564 | 15,199 | 28,343 | 9,022 |
| 1963 | 210,549 | 158,448 | 1,873 | 50,228 | 14,222 | 27,315 | 8,691 |
| 1962 | 191,067 | 144,577 | 1,537 | 44,953 | 12,929 | 24,315 | 7,709 |
| 1961 | 180,668 | 136,749 | 1,446 | 42,473 | 12,205 | 23,257 | 7,011 |
| 1960 | 168,002 | 128,450 | 1,390 | 38,162 | 11,499 | 22,350 | 4,313 |
| **HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)** | | | | | | | |
| **1980p** | **76,378** | **24,227** | **67** | **52,084** | **4,692** | **35,212** | **12,180** |
| 1979 | 75,351 | 23,916 | 67 | 51,368 | 4,693 | 34,495 | 12,180 |
| 1978 | 71,014 | 23,847 | 67 | 47,100 | 4,694 | 30,431 | 11,975 |
| 1977 | 68,762 | 23,158 | 67 | 45,537 | 4,431 | 29,332 | 11,774 |
| 1976 | 67,757 | 23,134 | 67 | 44,556 | 4,010 | 29,031 | 11,515 |
| 1975 | 65,949 | 23,115 | 67 | 42,767 | 3,760 | 27,480 | 11,527 |
| 1974 | 63,560 | 22,737 | 54 | 40,769 | 3,814 | 25,447 | 11,508 |
| 1973 | 61,782 | 21,770 | 56 | 39,956 | 3,334 | 25,582 | 11,040 |
| 1972 | 56,386 | 19,122 | 54 | 37,210 | 3,330 | 24,336 | 9,544 |
| 1971 | 55,912 | 19,076 | 54 | 36,782 | 3,260 | 24,056 | 9,466 |
| 1970 | 55,056 | 18,850 | 56 | 36,150 | 3,195 | 23,499 | 9,456 |
| 1969 | 52,753 | 18,444 | 56 | 34,253 | 3,195 | 22,054 | 9,004 |
| 1968 | 51,168 | 18,337 | 57 | 32,774 | 3,177 | 20,905 | 8,692 |
| 1967 | 48,112 | 18,134 | 57 | 29,921 | 2,623 | 19,589 | 7,709 |
| 1966 | 44,977 | 16,381 | 57 | 28,539 | 2,005 | 19,531 | 7,003 |
| 1965 | 43,782 | 16,096 | 58 | 27,628 | 2,005 | 18,717 | 6,906 |
| 1964 | 42,188 | 15,296 | 58 | 26,834 | 1,979 | 17,947 | 6,908 |
| 1963 | 40,214 | 14,620 | 58 | 25,536 | 1,982 | 16,923 | 6,631 |
| 1962 | 37,342 | 13,629 | 47 | 23,666 | 1,651 | 16,149 | 5,866 |
| 1961 | 35,481 | 13,522 | 50 | 21,909 | 1,584 | 15,091 | 5,234 |
| 1960 | 32,367 | 13,359 | 46 | 18,962 | 1,521 | 14,637 | 2,804 |
| **CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)** | | | | | | | |
| **1980p** | **475,276** | **403,031** | **14,954** | **57,291** | **25,697** | **20,393** | **11,201** |
| 1979 | 462,999 | 392,349 | 13,375 | 57,275 | 25,599 | 20,378 | 11,298 |
| 1978 | 449,231 | 383,024 | 11,073 | 55,134 | 25,511 | 20,378 | 9,245 |
| 1977 | 436,426 | 371,976 | 10,429 | 54,021 | 24,590 | 20,378 | 9,053 |
| 1976 | 415,181 | 355,263 | 9,061 | 50,857 | 22,396 | 20,355 | 8,106 |
| 1975 | 397,649 | 340,907 | 8,264 | 48,478 | 20,843 | 20,332 | 7,303 |
| 1974 | 375,940 | 323,490 | 7,017 | 45,433 | 20,395 | 18,899 | 6,139 |
| 1973 | 352,072 | 303,536 | 6,836 | 41,700 | 18,511 | 18,917 | 4,272 |
| 1972 | 322,201 | 279,129 | 6,254 | 36,818 | 16,895 | 16,052 | 3,871 |
| 1971 | 299,996 | 260,016 | 5,018 | 34,962 | 16,026 | 15,576 | 3,360 |
| 1970 | 275,191 | 236,792 | 4,761 | 33,638 | 15,141 | 15,194 | 3,303 |
| 1969 | 252,411 | 217,196 | 3,925 | 31,290 | 14,291 | 14,051 | 2,948 |
| 1968 | 233,095 | 199,285 | 3,031 | 30,779 | 13,807 | 14,026 | 2,946 |
| 1967 | 214,435 | 182,340 | 2,608 | 29,487 | 13,046 | 14,026 | 2,415 |
| 1966 | 197,415 | 167,370 | 2,348 | 27,697 | 12,230 | 13,052 | 2,415 |
| 1965 | 188,054 | 159,800 | 1,902 | 26,352 | 11,197 | 12,948 | 2,207 |
| 1964 | 175,871 | 150,753 | 1,617 | 23,501 | 11,056 | 10,371 | 2,074 |
| 1963 | 166,229 | 142,235 | 1,477 | 22,517 | 10,120 | 10,367 | 2,030 |
| 1962 | 149,943 | 129,556 | 1,169 | 19,218 | 9,265 | 8,141 | 1,812 |
| 1961 | 141,784 | 122,095 | 1,075 | 18,614 | 8,728 | 8,141 | 1,745 |
| 1960 | 132,521 | 114,148 | 1,032 | 17,341 | 8,176 | 7,689 | 1,476 |

See page 9 for footnotes.

# TABLE 2 (continued)
# INSTALLED GENERATING CAPACITY – TOTAL ELECTRIC UTILITY INDUSTRY*
## BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
## KILOWATTS IN THOUSANDS (NAME PLATE)

| At December 31 | Total Electric Utility Industry | Investor-Owned Utilities | Cooperatives | Subtotal Government | Municipal Utilities | Federal | Power Districts, State Projects |
|---|---|---|---|---|---|---|---|
| **NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)** | | | | | | | |
| **1980p** | **56,488** | **47,960** | **50** | **8,478** | **963** | **3,456** | **4,059** |
| 1979 | 54,593 | 46,065 | 50 | 8,478 | 963 | 3,456 | 4,059 |
| 1978 | 53,527 | 44,984 | 65 | 8,478 | 963 | 3,456 | 4,059 |
| 1977 | 49,880 | 41,654 | 55 | 8,171 | 963 | 3,456 | 3,752 |
| 1976 | 42,918 | 35,419 | 480 | 7,019 | 963 | 2,304 | 3,752 |
| 1975 | 39,754 | 33,539 | 480 | 5,735 | 963 | 2,304 | 2,468 |
| 1974 | 31,662 | 28,397 | 55 | 3,210 | – | 1,152 | 2,058 |
| 1973 | 21,118 | 19,766 | 53 | 1,299 | – | – | 1,299 |
| 1972 | 15,302 | 14,449 | 53 | 800 | – | – | 800 |
| 1971 | 8,688 | 7,833 | 55 | 800 | – | – | 800 |
| 1970 | 6,493 | 5,693 | – | 800 | – | – | 800 |
| 1969 | 3,980 | 3,180 | – | 800 | – | – | 800 |
| 1968 | 2,817 | 2,017 | – | 800 | – | – | 800 |
| 1967 | 2,887 | 2,087 | ** | 800** | ** | – | 800 |
| 1966 | 1,942 | 1,142** | ** | 800** | ** | – | 800 |
| 1965 | 926 | 926** | ** | ** | ** | – | ** |
| 1964 | 906 | 906** | ** | ** | ** | – | ** |
| 1963 | 861 | 861** | ** | ** | – | – | ** |
| 1962 | 734 | 734 | – | – | – | – | – |
| 1961 | 442 | 442 | – | – | – | – | – |
| 1960 | 297 | 297 | – | – | – | – | – |
| **INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)** | | | | | | | |
| **1980p** | **5,553** | **1,865** | **351** | **3,337** | **3,246** | **22** | **69** |
| 1979 | 5,500 | 1,814 | 345 | 3,341 | 3,270 | 17 | 54 |
| 1978 | 5,540 | 1,792 | 430 | 3,318 | 3,258 | 17 | 43 |
| 1977 | 5,293 | 1,597 | 338 | 3,358 | 3,307 | 17 | 34 |
| 1976 | 5,306 | 1,688 | 339 | 3,279 | 3,233 | 17 | 29 |
| 1975 | 5,062 | 1,475 | 325 | 3,262 | 3,221 | 17 | 24 |
| 1974 | 5,006 | 1,498 | 348 | 3,160 | 3,115 | 20 | 25 |
| 1973 | 4,903 | 1,404 | 343 | 3,156 | 3,111 | 21 | 24 |
| 1972 | 4,864 | 1,653 | 343 | 2,868 | 2,824 | 20 | 24 |
| 1971 | 4,484 | 1,376 | 343 | 2,765 | 2,706 | 24 | 35 |
| 1970 | 4,350 | 1,340 | 345 | 2,665 | 2,605 | 25 | 35 |
| 1969 | 4,205 | 1,258 | 337 | 2,610 | 2,549 | 25 | 36 |
| 1968 | 3,978 | 1,127 | 346 | 2,505 | 2,445 | 25 | 35 |
| 1967 | 3,818 | 1,019 | 354 | 2,445 | 2,380 | 25 | 40 |
| 1966 | 3,509 | 778 | 353 | 2,378 | 2,313 | 25 | 40 |
| 1965 | 3,365 | 748 | 349 | 2,268 | 2,205 | 25 | 38 |
| 1964 | 3,320 | 749 | 342 | 2,229 | 2,164 | 25 | 40 |
| 1963 | 3,245 | 732 | 338 | 2,175 | 2,120 | 25 | 30 |
| 1962 | 3,048 | 658 | 321 | 2,069 | 2,013 | 25 | 31 |
| 1961 | 2,961 | 690 | 321 | 1,950 | 1,893 | 25 | 32 |
| 1960 | 2,817 | 646 | 312 | 1,859 | 1,802 | 24 | 33 |

*Alaska and Hawaii included since 1963.

**Generator capacity of the following plants is included in Conventional Steam:
Piqua – Piqua Municipal Power Plant, Ohio
Elk River – Rural Cooperative Power Assoc., Minnesota
Sheldon – Consumer's Public Power District, Nebraska
Parr – South Carolina Electric & Gas Co., South Carolina

p Preliminary

Source: Energy Information Administration.

# TABLE 3
# INSTALLED GENERATING CAPACITY — TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR AT DECEMBER 31st, 1979 and 1980p — KILOWATTS IN THOUSANDS (NAME PLATE)

| | Total Electric Utility Industry | | Hydro | | Conventional Steam | | Nuclear Steam | | Internal Combustion | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division/State | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 |
| **Total United States** | **613,695** | **598,443** | **76,378** | **75,351** | **475,276** | **462,999** | **56,488** | **54,593** | **5,553** | **5,500** |
| Maine | 2,380 | 2,385 | 347 | 347 | 1,114 | 1,114 | 864 | 864 | 55 | 60 |
| New Hampshire | 1,566 | 1,566 | 378 | 378 | 1,188 | 1,188 | — | — | — | — |
| Vermont | 942 | 942 | 194 | 194 | 164 | 164 | 563 | 563 | 21 | 21 |
| Massachusetts | 9,651 | 9,695 | 1,642 | 1,641 | 7,002 | 7,020 | 836 | 863 | 171 | 171 |
| Rhode Island | 285 | 285 | 2 | 2 | 257 | 257 | — | — | 26 | 26 |
| Connecticut | 6,319 | 6,317 | 134 | 134 | 3,993 | 3,991 | 2,171 | 2,171 | 21 | 21 |
| **New England** | **21,143** | **21,190** | **2,697** | **2,696** | **13,718** | **13,734** | **4,434** | **4,461** | **294** | **299** |
| New York | 31,444 | 31,459 | 4,969 | 4,969 | 22,021 | 22,042 | 4,343 | 4,343 | 111 | 105 |
| New Jersey | 12,581 | 12,339 | 389 | 389 | 10,470 | 10,228 | 1,720 | 1,720 | 2 | 2 |
| Pennsylvania | 34,382 | 33,469 | 1,651 | 1,651 | 27,479 | 26,566 | 5,159 | 5,159 | 93 | 93 |
| **Middle Atlantic** | **78,407** | **77,267** | **7,009** | **7,009** | **59,970** | **58,836** | **11,222** | **11,222** | **206** | **200** |
| Ohio | 27,406 | 27,413 | 2 | 2 | 26,266 | 26,273 | 962 | 962 | 176 | 176 |
| Indiana | 17,109 | 17,137 | 93 | 93 | 16,964 | 16,984 | — | — | 52 | 60 |
| Illinois | 29,953 | 29,952 | 31 | 31 | 23,922 | 23,921 | 5,718 | 5,718 | 282 | 282 |
| Michigan | 22,701 | 21,924 | 2,320 | 2,320 | 16,809 | 16,039 | 3,172 | 3,172 | 400 | 393 |
| Wisconsin | 10,726 | 10,129 | 399 | 399 | 8,597 | 8,000 | 1,633 | 1,633 | 97 | 97 |
| **East North Central** | **107,895** | **106,555** | **2,845** | **2,845** | **92,558** | **91,217** | **11,485** | **11,485** | **1,007** | **1,008** |
| Minnesota | 8,761 | 8,244 | 142 | 142 | 6,518 | 6,001 | 1,755 | 1,755 | 346 | 346 |
| Iowa | 7,273 | 7,311 | 130 | 130 | 5,969 | 5,997 | 597 | 597 | 577 | 587 |
| Missouri | 13,846 | 13,855 | 844 | 844 | 12,628 | 12,628 | — | — | 374 | 383 |
| North Dakota | 3,450 | 2,869 | 430 | 430 | 2,933 | 2,352 | — | — | 87 | 87 |
| South Dakota | 2,208 | 2,208 | 1,383 | 1,383 | 710 | 710 | — | — | 115 | 115 |
| Nebraska | 5,142 | 5,142 | 234 | 234 | 3,364 | 3,364 | 1,303 | 1,303 | 241 | 241 |
| Kansas | 8,346 | 7,622 | 2 | 2 | 7,823 | 7,103 | — | — | 521 | 517 |
| **West North Central** | **49,026** | **47,251** | **3,165** | **3,165** | **39,945** | **38,155** | **3,655** | **3,655** | **2,261** | **2,276** |
| Delaware | 1,644 | 1,644 | — | — | 1,633 | 1,633 | — | — | 11 | 11 |
| Maryland | 9,187 | 9,187 | 493 | 493 | 6,803 | 6,803 | 1,828 | 1,828 | 63 | 63 |
| District of Columbia | 1,153 | 1,241 | — | — | 1,153 | 1,241 | — | — | — | — |
| Virginia | 11,667 | 10,695 | 840 | 840 | 7,140 | 7,157 | 3,654 | 2,675 | 33 | 23 |
| West Virginia | 15,250 | 13,162 | 100 | 100 | 15,150 | 13,062 | — | — | — | — |
| North Carolina | 15,605 | 15,786 | 1,850 | 1,850 | 12,017 | 12,197 | 1,733 | 1,733 | 5 | 6 |
| South Carolina | 11,674 | 11,699 | 2,265 | 2,265 | 5,978 | 6,003 | 3,430 | 3,430 | 1 | 1 |
| Georgia | 16,344 | 16,239 | 1,733 | 1,681 | 12,906 | 12,853 | 1,700 | 1,700 | 5 | 5 |
| Florida | 28,998 | 28,003 | 30 | 30 | 25,459 | 24,462 | 3,261 | 3,261 | 248 | 250 |
| **South Atlantic** | **111,522** | **107,656** | **7,311** | **7,259** | **88,239** | **85,411** | **15,606** | **14,627** | **366** | **359** |
| Kentucky | 13,650 | 13,403 | 746 | 746 | 12,891 | 12,644 | — | — | 13 | 13 |
| Tennessee | 15,879 | 15,879 | 3,755 | 3,755 | 12,124 | 12,124 | — | — | — | — |
| Alabama | 18,248 | 18,105 | 2,588 | 2,588 | 11,316 | 11,173 | 4,344 | 4,344 | — | — |
| Mississippi | 5,535 | 5,535 | — | — | 5,535 | 5,535 | — | — | — | — |
| **East South Central** | **53,312** | **52,922** | **7,089** | **7,089** | **41,866** | **41,476** | **4,344** | **4,344** | **13** | **13** |
| Arkansas | 7,190 | 5,433 | 1,087 | 1,087 | 4,206 | 3,392 | 1,845 | 902 | 52 | 52 |
| Louisiana | 12,855 | 12,854 | — | — | 12,666 | 12,666 | — | — | 189 | 188 |
| Oklahoma | 11,348 | 10,345 | 965 | 965 | 10,224 | 9,221 | — | — | 159 | 159 |
| Texas | 53,279 | 52,371 | 519 | 519 | 52,508 | 51,603 | — | — | 252 | 249 |
| **West South Central** | **84,672** | **81,003** | **2,571** | **2,571** | **79,604** | **76,882** | **1,845** | **902** | **652** | **648** |
| Montana | 3,183 | 3,183 | 2,066 | 2,066 | 1,114 | 1,114 | — | — | 3 | 3 |
| Idaho | 1,979 | 1,762 | 1,917 | 1,700 | 50 | 50 | — | — | 12 | 12 |
| Wyoming | 4,118 | 4,138 | 220 | 220 | 3,883 | 3,903 | — | — | 15 | 15 |
| Colorado | 6,149 | 5,452 | 771 | 770 | 4,960 | 4,264 | 343 | 343 | 75 | 75 |
| New Mexico | 5,025 | 4,513 | 24 | 24 | 4,887 | 4,372 | — | — | 114 | 117 |
| Arizona | 9,367 | 9,367 | 2,112 | 2,112 | 7,251 | 7,251 | — | — | 4 | 4 |
| Utah | 2,133 | 2,133 | 197 | 197 | 1,902 | 1,902 | — | — | 34 | 34 |
| Nevada | 3,858 | 3,787 | 682 | 682 | 3,110 | 3,039 | — | — | 66 | 66 |
| **Mountain** | **35,812** | **34,335** | **7,989** | **7,771** | **27,157** | **25,895** | **343** | **343** | **323** | **326** |
| Washington | 22,992 | 22,275 | 20,487 | 19,770 | 1,641 | 1,641 | 860 | 860 | 4 | 4 |
| Oregon | 8,509 | 7,948 | 5,688 | 5,688 | 1,599 | 1,038 | 1,216 | 1,216 | 6 | 6 |
| California | 37,832 | 37,500 | 9,397 | 9,358 | 26,855 | 26,591 | 1,478 | 1,478 | 102 | 73 |
| **Pacific** | **69,333** | **67,723** | **35,572** | **34,816** | **30,095** | **29,270** | **3,554** | **3,554** | **112** | **83** |
| Alaska | 1,146 | 1,140 | 127 | 127 | 814 | 814 | — | — | 205 | 199 |
| Hawaii | 1,427 | 1,401 | 3 | 3 | 1,310 | 1,309 | — | — | 114 | 89 |
| **Alaska & Hawaii** | **2,573** | **2,541** | **130** | **130** | **2,124** | **2,123** | **—** | **—** | **319** | **288** |

p Preliminary. Source: Energy Information Administration.

# TABLE 4
# INSTALLED GENERATING CAPACITY—INVESTOR-OWNED ELECTRIC UTILITIES
## BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR AT DECEMBER 31st, 1979 and 1980p—KILOWATTS IN THOUSANDS (NAME PLATE)

| Division/State | Total Investor-Owned Utilities | | Hydro | | Conventional Steam | | Nuclear Steam | | Internal Combustion | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 |
| **Total United States** | **477,083** | **464,144** | **24,227** | **23,916** | **403,031** | **392,349** | **47,960** | **46,065** | **1,865** | **1,814** |
| Maine | 2,367 | 2,367 | 346 | 346 | 1,114 | 1,114 | 864 | 864 | 43 | 43 |
| New Hampshire | 1,566 | 1,566 | 378 | 378 | 1,188 | 1,188 | — | — | — | — |
| Vermont | 870 | 870 | 181 | 181 | 108 | 108 | 563 | 563 | 18 | 18 |
| Massachusetts | 9,213 | 9,257 | 1,631 | 1,630 | 6,641 | 6,659 | 836 | 863 | 105 | 105 |
| Rhode Island | 283 | 283 | — | — | 257 | 257 | — | — | 26 | 26 |
| Connecticut | 6,248 | 6,248 | 131 | 131 | 3,940 | 3,940 | 2,171 | 2,171 | 6 | 6 |
| **New England** | **20,547** | **20,591** | **2,667** | **2,666** | **13,248** | **13,256** | **4,434** | **4,461** | **198** | **198** |
| New York | 24,398 | 24,414 | 861 | 861 | 21,049 | 21,071 | 2,447 | 2,447 | 41 | 35 |
| New Jersey | 12,467 | 12,225 | 387 | 387 | 10,360 | 10,118 | 1,720 | 1,720 | — | — |
| Pennsylvania | 34,374 | 33,461 | 1,651 | 1,651 | 27,472 | 26,559 | 5,159 | 5,159 | 92 | 92 |
| **Middle Atlantic** | **71,239** | **70,100** | **2,899** | **2,899** | **58,881** | **57,748** | **9,326** | **9,326** | **133** | **127** |
| Ohio | 26,628 | 26,628 | — | — | 25,538 | 25,538 | 962 | 962 | 128 | 128 |
| Indiana | 16,610 | 16,630 | 93 | 93 | 16,485 | 16,505 | — | — | 32 | 32 |
| Illinois | 28,676 | 28,675 | 14 | 14 | 22,905 | 22,904 | 5,718 | 5,718 | 39 | 39 |
| Michigan | 21,194 | 20,424 | 2,288 | 2,288 | 15,561 | 14,791 | 3,172 | 3,172 | 173 | 173 |
| Wisconsin | 9,409 | 8,812 | 365 | 365 | 7,433 | 6,836 | 1,583 | 1,583 | 28 | 28 |
| **East North Central** | **102,517** | **101,169** | **2,760** | **2,760** | **87,922** | **86,574** | **11,435** | **11,435** | **400** | **400** |
| Minnesota | 7,684 | 7,167 | 137 | 137 | 5,754 | 5,237 | 1,755 | 1,755 | 38 | 38 |
| Iowa | 6,181 | 6,221 | 127 | 127 | 5,241 | 5,269 | 597 | 597 | 216 | 228 |
| Missouri | 10,530 | 10,530 | 596 | 596 | 9,853 | 9,853 | — | — | 81 | 81 |
| North Dakota | 183 | 183 | — | — | 124 | 124 | — | — | 59 | 59 |
| South Dakota | 803 | 803 | — | — | 710 | 710 | — | — | 93 | 93 |
| Nebraska | — | — | — | — | — | — | — | — | — | — |
| Kansas | 6,522 | 5,802 | 2 | 2 | 6,487 | 5,767 | — | — | 33 | 33 |
| **West North Central** | **31,903** | **30,706** | **862** | **862** | **28,169** | **26,960** | **2,352** | **2,352** | **520** | **532** |
| Delaware | 1,463 | 1,463 | — | — | 1,462 | 1,462 | — | — | 1 | 1 |
| Maryland | 9,111 | 9,111 | 493 | 493 | 6,779 | 6,779 | 1,828 | 1,828 | 11 | 11 |
| District of Columbia | 1,153 | 1,241 | — | — | 1,153 | 1,241 | — | — | — | — |
| Virginia | 11,386 | 10,407 | 606 | 606 | 7,111 | 7,111 | 3,654 | 2,675 | 15 | 15 |
| West Virginia | 15,250 | 13,162 | 100 | 100 | 15,150 | 13,062 | — | — | — | — |
| North Carolina | 15,217 | 15,397 | 1,480 | 1,480 | 12,004 | 12,184 | 1,733 | 1,733 | — | — |
| South Carolina | 9,779 | 9,804 | 1,846 | 1,846 | 4,503 | 4,528 | 3,430 | 3,430 | — | — |
| Georgia | 15,149 | 15,044 | 556 | 504 | 12,888 | 12,835 | 1,700 | 1,700 | 5 | 5 |
| Florida | 23,976 | 22,929 | — | — | 20,683 | 19,636 | 3,261 | 3,261 | 32 | 32 |
| **South Atlantic** | **102,484** | **98,558** | **5,081** | **5,029** | **81,733** | **78,838** | **15,606** | **14,627** | **64** | **64** |
| Kentucky | 6,169 | 6,169 | 110 | 110 | 6,059 | 6,059 | — | — | — | — |
| Tennessee | 172 | 172 | 172 | 172 | — | — | — | — | — | — |
| Alabama | 9,088 | 9,180 | 1,343 | 1,343 | 6,857 | 6,949 | 888 | 888 | — | — |
| Mississippi | 4,801 | 4,801 | — | — | 4,801 | 4,801 | — | — | — | — |
| **East South Central** | **20,230** | **20,322** | **1,625** | **1,625** | **17,717** | **17,809** | **888** | **888** | **—** | **—** |
| Arkansas | 5,792 | 4,049 | 65 | 65 | 3,868 | 3,068 | 1,845 | 902 | 14 | 14 |
| Louisiana | 11,350 | 11,325 | — | — | 11,278 | 11,268 | — | — | 72 | 57 |
| Oklahoma | 9,457 | 8,454 | — | — | 9,421 | 8,418 | — | — | 36 | 36 |
| Texas | 43,856 | 42,854 | 10 | 10 | 43,807 | 42,805 | — | — | 39 | 39 |
| **West South Central** | **70,455** | **66,682** | **75** | **75** | **68,374** | **65,559** | **1,845** | **902** | **161** | **146** |
| Montana | 1,993 | 1,993 | 876 | 876 | 1,114 | 1,114 | — | — | 3 | 3 |
| Idaho | 1,354 | 1,135 | 1,297 | 1,078 | 50 | 50 | — | — | 7 | 7 |
| Wyoming | 3,896 | 3,916 | — | — | 3,882 | 3,902 | — | — | 14 | 14 |
| Colorado | 3,336 | 3,336 | 340 | 340 | 2,633 | 2,633 | 343 | 343 | 20 | 20 |
| New Mexico | 4,808 | 4,276 | — | — | 4,725 | 4,210 | — | — | 83 | 66 |
| Arizona | 2,874 | 2,874 | 7 | 7 | 2,863 | 2,863 | — | — | 4 | 4 |
| Utah | 1,956 | 1,956 | 63 | 63 | 1,888 | 1,888 | — | — | 5 | 5 |
| Nevada | 3,185 | 3,114 | 9 | 9 | 3,110 | 3,039 | — | — | 66 | 66 |
| **Mountain** | **23,402** | **22,600** | **2,592** | **2,373** | **20,265** | **19,699** | **343** | **343** | **202** | **185** |
| Washington | 2,579 | 2,579 | 965 | 965 | 1,611 | 1,611 | — | — | 3 | 3 |
| Oregon | 4,189 | 3,628 | 1,444 | 1,444 | 1,523 | 962 | 1,216 | 1,216 | 6 | 6 |
| California | 26,065 | 25,762 | 3,241 | 3,202 | 22,278 | 22,014 | 515 | 515 | 31 | 31 |
| **Pacific** | **32,833** | **31,969** | **5,650** | **5,611** | **25,412** | **24,587** | **1,731** | **1,731** | **40** | **40** |
| Alaska | 46 | 46 | 13 | 13 | — | — | — | — | 33 | 33 |
| Hawaii | 1,427 | 1,401 | 3 | 3 | 1,310 | 1,309 | — | — | 114 | 89 |
| **Alaska & Hawaii** | **1,473** | **1,447** | **16** | **16** | **1,310** | **1,309** | **—** | **—** | **147** | **122** |

p Preliminary. Source: Energy Information Administration.

# TABLE 5
# CHANGES IN INSTALLED GENERATING CAPACITY
# TOTAL ELECTRIC UTILITY INDUSTRY*
## BY TYPE OF PRIME MOVER DRIVING THE GENERATOR
## 1961–1980—KILOWATTS IN THOUSANDS (NAME PLATE)

| At December 31 | New Additions | Retirements | Adjustments** | | Net Additions | At December 31 | New Additions | Retirements | Adjustments** | | Net Additions |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Plus | Minus | | | | | Plus | Minus | |
| **1980p‡** | | | | | | **1970** | | | | | |
| Hydro | .... | .... | .... | .... | 1,027 | Hydro | 2,244 | 48 | 109 | 3 | 2,302 |
| Steam | .... | .... | .... | .... | 14,172 | Steam | 25,506 | 905 | 882 | 190 | 25,293 |
| Internal Combustion | .... | .... | .... | .... | 53 | Internal Combustion | 242 | 40 | 42 | 98 | 146 |
| Total | .... | .... | .... | .... | 15,252 | Total | 27,992 | 993 | 1,033 | 291 | 27,741 |
| **1979‡** | | | | | | **1969** | | | | | |
| Hydro | .... | .... | .... | .... | 4,337 | Hydro | 1,638 | 115 | 64 | 2 | 1,585 |
| Steam | .... | .... | .... | .... | 14,834 | Steam | 19,837 | 856 | 1,605 | 107 | 20,479 |
| Internal Combustion | .... | .... | .... | .... | (40) | Internal Combustion | 219 | 39 | 78 | 31 | 227 |
| Total | .... | .... | .... | .... | 19,131 | Total | 21,694 | 1,010 | 1,747 | 140 | 22,291 |
| **1978‡** | | | | | | **1968** | | | | | |
| Hydro | .... | .... | .... | .... | 2,252 | Hydro | 3,015 | 80 | 145 | 24 | 3,056 |
| Steam | .... | .... | .... | .... | 16,452 | Steam | 18,830 | 697 | 593 | 136 | 18,590 |
| Internal Combustion | .... | .... | .... | .... | 247 | Internal Combustion | 210 | 57 | 39 | 32 | 160 |
| Total | .... | .... | .... | .... | 18,951 | Total | 22,055 | 834 | 777 | 192 | 21,806 |
| **1977‡** | | | | | | **1967** | | | | | |
| Hydro | .... | .... | .... | .... | 1,005 | Hydro | 3,320 | 215 | 30 | – | 3,135 |
| Steam | .... | .... | .... | .... | 28,207 | Steam | 17,992 | 459 | 578 | 146 | 17,965 |
| Internal Combustion | .... | .... | .... | .... | (13) | Internal Combustion | 364 | 56 | 24 | 23 | 309 |
| Total | .... | .... | .... | .... | 29,199 | Total | 21,676 | 730 | 632 | 169 | 21,409 |
| **1976‡** | | | | | | **1966** | | | | | |
| Hydro | .... | .... | .... | .... | 1,808 | Hydro | 1,240 | 51 | 8 | 2 | 1,195 |
| Steam | .... | .... | .... | .... | 20,696 | Steam | 10,486 | 565 | 604 | 148 | 10,377 |
| Internal Combustion | .... | .... | .... | .... | 244 | Internal Combustion | 183 | 54 | 24 | 9 | 144 |
| Total | .... | .... | .... | .... | 22,748 | Total | 11,909 | 670 | 636 | 159 | 11,716 |
| **1975‡** | | | | | | **1965** | | | | | |
| Hydro | .... | .... | .... | .... | 2,389 | Hydro | 1,661 | 64 | 2 | 5 | 1,594 |
| Steam | .... | .... | .... | .... | 29,801 | Steam | 11,943 | 773 | 1,202 | 169 | 12,203 |
| Internal Combustion | .... | .... | .... | .... | 56 | Internal Combustion | 102 | 70 | 19 | 6 | 45 |
| Total | .... | .... | .... | .... | 32,246 | Total | 13,706 | 907 | 1,223 | 180 | 13,842 |
| **1974‡** | | | | | | **1964** | | | | | |
| Hydro | .... | .... | .... | .... | 1,778 | Hydro | 2,021 | 36 | 22 | 33 | 1,974 |
| Steam | .... | .... | .... | .... | 34,412 | Steam | 9,366 | 534 | 926 | 71 | 9,687 |
| Internal Combustion | .... | .... | .... | .... | 103 | Internal Combustion | 93 | 43 | 31 | 6 | 75 |
| Total | .... | .... | .... | .... | 36,293 | Total | 11,480 | 613 | 979 | 110 | 11,736 |
| **1973‡** | | | | | | **1963** | | | | | |
| Hydro | .... | .... | .... | .... | 5,396 | Hydro | 2,838 | 62 | 10 | 2 | 2,784 |
| Steam | .... | .... | .... | .... | 35,687 | Steam | 9,475 | 771 | 7,269 | 193 | 15,780 |
| Internal Combustion | .... | .... | .... | .... | 39 | Internal Combustion | 165 | 36 | 17 | 8 | 138 |
| Total | .... | .... | .... | .... | 41,122 | Total | 12,478 | 869 | 7,296 | 203 | 18,702 |
| **1972‡** | | | | | | **1962** | | | | | |
| Hydro | .... | .... | .... | .... | 474 | Hydro | 1,992 | 79 | 10 | 62 | 1,861 |
| Steam | .... | .... | .... | .... | 28,819 | Steam | 8,563 | 842 | 920 | 190 | 8,451 |
| Internal Combustion | .... | .... | .... | .... | 380 | Internal Combustion | 97 | 47 | 54 | 17 | 87 |
| Total | .... | .... | .... | .... | 29,673 | Total | 10,652 | 968 | 984 | 269 | 10,399 |
| **1971‡** | | | | | | **1961** | | | | | |
| Hydro | .... | .... | .... | .... | 856 | Hydro | 3,292 | 191 | 15 | 3 | 3,113 |
| Steam | .... | .... | .... | .... | 27,000 | Steam | 9,341 | 652 | 872 | 153 | 9,408 |
| Internal Combustion | .... | .... | .... | .... | 134 | Internal Combustion | 131 | 22 | 48 | 13 | 144 |
| Total | .... | .... | .... | .... | 27,990 | Total | 12,764 | 865 | 935 | 169 | 12,665 |

*Alaska and Hawaii included since 1964.

**Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.

p Preliminary. ( ) Denotes negative figure.

‡Complete data not available at time of printing.

Source: Energy Information Administration.

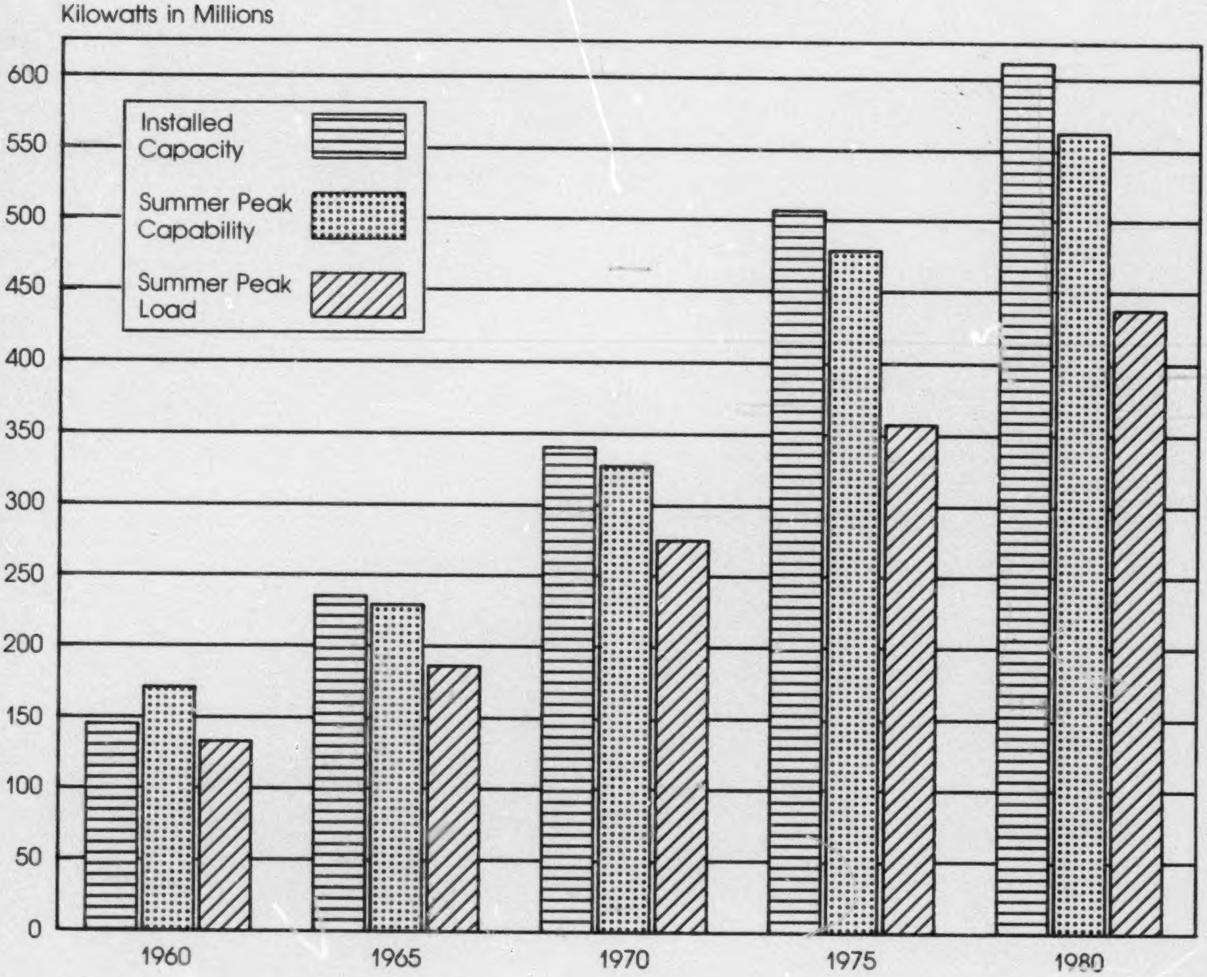
# ELECTRIC POWER SUPPLY

## SECTION II

Chart II-A

### CAPACITY, CAPABILITY & PEAK LOAD

TOTAL ELECTRIC UTILITY INDUSTRY*



*Excluding Alaska & Hawaii

Based on Table 3, page 10 and Table 7, page 14.

Source: Energy Information Administration & Edison Electric Institute: Electric Power Survey.

# TABLE 7
# CAPABILITY* — PEAK LOAD — KILOWATT-HOUR REQUIREMENTS
# TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)

| Year | Capability at Time of Summer Peak Load (Mw) | Non-Coincident Summer Peak Load (Mw) | Capability at Time of Winter Peak Load (Mw)† | Non-Coincident Winter Peak Load (Mw)† | Margin of Reserve Based on Non-Coincident Peak Load (%)†‡ | Annual Kilowatt-Hour Requirements (in Millions) | Annual Load Factor Based on Peak Load (%) |
|---|---|---|---|---|---|---|---|
| **1980** ....... | **558,539** | **427,058** | **572,195** | **384,567** | **30.8** | **2,292,718** | **61.1** |
| 1979r ....... | 545,328 | 398,424 | 554,525 | 368,876 | 36.9 | 2,246,927 | 64.4 |
| 1978 ....... | 545,700 | 408,050 | 561,550 | 383,100 | 33.7 | 2,218,700 | 62.1 |
| 1977 ....... | 516,000 | 396,350 | 537,600 | 360,200 | 30.2 | 2,132,300 | 61.4 |
| 1976 ....... | 498,750 | 370,900 | 511,000 | 349,850 | 34.5 | 2,039,500 | 62.6 |
| 1975 ....... | 479,300 | 356,800 | 492,450 | 331,100 | 34.3 | 1,919,500 | 61.4 |
| 1974 ....... | 444,400 | 349,250 | 467,400 | 302,500 | 27.2 | 1,871,700 | 61.2 |
| 1973 ....... | 415,500 | 343,900 | 433,150 | 295,100 | 20.8 | 1,868,800 | 62.0 |
| 1972 ....... | 381,700 | 319,150 | 394,050 | 290,950 | 19.6 | 1,752,200 | 62.5 |
| 1971 ....... | 353,250 | 292,100 | 366,700 | 261,650 | 20.9 | 1,617,100 | 63.2 |
| 1970 ....... | 326,900 | 274,650 | 339,050 | 248,550 | 19.0 | 1,536,400 | 63.9 |
| 1969 ....... | 300,300 | 257,650 | 311,450 | 236,600 | 16.6 | 1,446,000 | 64.1 |
| 1968 ....... | 278,950 | 238,000 | 288,750 | 226,700 | 17.2 | 1,327,200 | 63.5 |
| 1967 ....... | 257,950 | 213,450 | 267,750 | 205,850 | 20.8 | 1,221,500 | 65.3 |
| 1966 ....... | 240,700 | 203,350 | 247,650 | 193,700 | 18.4 | 1,152,900 | 64.7 |
| 1965 ....... | 228,900 | 186,300 | 235,700 | 180,400 | 22.9 | 1,060,100 | 65.0 |
| 1964 ....... | 216,500 | 175,000 | 222,400 | 171,100 | 23.7 | 986,800 | 64.2 |
| 1963 ....... | 205,300 | 159,450 | 210,000 | 161,300 | 30.2(w) | 921,800 | 65.2 |
| 1962 ....... | 193,600 | 149,050 | 198,050 | 151,250 | 31.0(w) | 860,200 | 64.9 |
| 1961 ....... | 184,700 | 141,000 | 188,600 | 140,700 | 31.0 | 799,800 | 64.8 |
| 1960 ....... | 170,600 | 132,800 | 174,900 | 133,000 | 31.5(w) | 764,900 | 65.5 |

* Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar name-plate rating as used in other tables of this publication.

† Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡ Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load.

(w) Indicates that the non-coincident peak load, summer or winter, occurred during winter of that year.

r Revised.

Sources: National Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

# TABLE 8
# ELECTRICITY MADE AVAILABLE IN THE UNITED STATES
## KILOWATT-HOURS IN MILLIONS

| | Generation | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | Investor-Owned Utilities | Government and Cooperatives | Total Electric Utility Industry | Other Sources* | Total United States | Net Imports of Electric Energy | Total Available in U.S. | Estimated Population† (Thousands) (July 1) | Kwhr Per Person |
| **1980p** ...... | **1,782,933** | **503,481** | **2,286,414** | **67,945e** | **2,354,359** | **27,179** | **2,381,538** | **227,158** | **10,484** |
| 1979 ....... | 1,756,170 | 491,189 | 2,247,359 | 71,375 | 2,318,734 | 29,530r | 2,348,264r | 224,567r | 10,457r |
| 1978 ....... | 1,721,163 | 485,150 | 2,206,313 | 78,967 | 2,285,280 | 19,364 | 2,304,644 | 222,095r | 10,377r |
| 1977 ....... | 1,684,084 | 440,082 | 2,124,166 | 87,575 | 2,211,741 | 17,415 | 2,229,156 | 219,760r | 10,144r |
| 1976 ....... | 1,582,029 | 455,645 | 2,037,674 | 87,084 | 2,124,758 | 8,611 | 2,133,369 | 217,563r | 9,806r |
| 1975 ....... | 1,486,844 | 430,775 | 1,917,619 | 85,362 | 2,002,981 | 6,185 | 2,009,166 | 215,465r | 9,325r |
| 1974 ....... | 1,442,114 | 424,322 | 1,866,436 | 101,572 | 1,968,008 | 12,694 | 1,980,702 | 213,342r | 9,284r |
| 1973 ....... | 1,448,860 | 407,356 | 1,856,216 | 102,529 | 1,958,745 | 14,278 | 1,973,023 | 211,357r | 9,335r |
| 1972 ....... | 1,358,929 | 390,708 | 1,749,637 | 104,508 | 1,854,145 | 7,744 | 1,861,889 | 209,284r | 8,896r |
| 1971 ....... | 1,248,596 | 363,993 | 1,612,589 | 103,239 | 1,715,828 | 3,530 | 1,719,358 | 206,827r | 8,313r |
| 1970 ....... | 1,183,190 | 348,419 | 1,531,609 | 108,162 | 1,639,771 | 1,960 | 1,641,731 | 203,984r | 8,048r |
| 1969 ....... | 1,102,162 | 340,020 | 1,442,182 | 110,575 | 1,552,757 | 1,072 | 1,553,829 | 201,385 | 7,716 |
| 1968 ....... | 1,019,313 | 310,130 | 1,329,443 | 106,586 | 1,436,029 | (631) | 1,435,398 | 199,399 | 7,199 |
| 1967 ....... | 928,439 | 285,926 | 1,214,365 | 102,935 | 1,317,300 | (299) | 1,317,001 | 197,457 | 6,670 |
| 1966 ....... | 880,837 | 263,513 | 1,144,350 | 105,094 | 1,249,444 | 1,092 | 1,250,536 | 195,576 | 6,394 |
| 1965 ....... | 809,474 | 245,778 | 1,055,252 | 102,331 | 1,157,583 | (141) | 1,157,442 | 193,526 | 5,981 |
| 1964 ....... | 756,183 | 227,807 | 983,990 | 99,751 | 1,083,741 | 1,955 | 1,085,696 | 191,141 | 5,680 |
| 1963 ....... | 701,253 | 215,540 | 916,793 | 94,624 | 1,011,417 | 98 | 1,011,515 | 188,483 | 5,367 |
| 1962 ....... | 653,070 | 201,703 | 854,773 | 91,709 | 946,482 | 536 | 947,018 | 185,771 | 5,098 |
| 1961 ....... | 606,737 | 187,536 | 794,273 | 87,222 | 881,495 | 2,254 | 883,749 | 182,992 | 4,829 |
| 1960 ....... | 580,286 | 175,088 | 755,374 | 88,814 | 844,188 | 4,535 | 848,723 | 179,979 | 4,716 |

*Includes generation of industrial, mine and railway electric power plants. Does not include the generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

†U.S. Department of Commerce estimates; excludes Armed Forces overseas.

p Preliminary. r Revised. e Estimated. ( ) Denotes negative figure.

Source: Energy Information Administration.

## TABLE 9

## TOTAL UNITED STATES KILOWATT-HOUR SOURCE AND DISPOSITION

### 1960–1980 — KILOWATT-HOURS IN MILLIONS

| | 1980p | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 |
|---|---|---|---|---|---|---|---|
| SOURCE | | | | | | | |
| Generation | | | | | | | |
| Total Electric Utility Industry | 2,286,414 | 2,247,359 | 2,206,313 | 2,124,166 | 2,037,674 | 1,917,619 | 1,866,436 |
| Industrials | 60,369e | 65,341 | 72,297 | 83,543 | 82,406 | 79,340 | 94,955 |
| Industrials — for Sales to Electric Utility Industry | 7,576 | 6,034 | 6,670 | 4,032 | 4,678 | 6,022 | 6,617 |
| **Total Generation** | **2,354,359** | **2,318,734** | **2,285,280** | **2,211,741** | **2,124,758** | **2,002,981** | **1,968,008** |
| Imports from Canada & Mexico | 30,176 | 31,378 | 21,514 | 20,159 | 10,989 | 11,268 | 15,420 |
| **Total Kilowatt-hours** | **2,384,535** | **2,350,112** | **2,306,794** | **2,231,900** | **2,135,747** | **2,014,249** | **1,983,428** |
| DISPOSITION | | | | | | | |
| Total Sales to Ultimate Customers | 2,095,333 | 2,079,221 | 2,017,818 | 1,950,791 | 1,849,625 | 1,733,024 | 1,700,769 |
| Exports to Canada & Mexico | 2,997 | 1,849 | 2,150 | 2,744 | 2,378 | 5,083 | 2,726 |
| Energy Used by Producer | 2,540 | 3,382 | 2,372 | 2,462 | 2,559 | 3,068 | 3,059 |
| Company Use & Free Service | 8,555 | 11,086 | 7,975 | 7,037 | 5,717 | 4,709 | 4,850 |
| Lost and Unaccounted For | 214,741 | 189,233 | 204,182 | 185,323 | 193,062 | 189,025 | 177,069 |
| Industrials | 60,369e | 65,341 | 72,297 | 83,543 | 82,406 | 79,340 | 94,955 |
| **Total Kilowatt-hours** | **2,384,535** | **2,350,112** | **2,306,794** | **2,231,900** | **2,135,747** | **2,014,249** | **1,983,428** |

| | 1973 | 1972 | 1971 | 1970 | 1969 | 1968 | 1967 |
|---|---|---|---|---|---|---|---|
| SOURCE | | | | | | | |
| Generation | | | | | | | |
| Total Electric Utility Industry | 1,856,216 | 1,749,637 | 1,612,589 | 1,531,609 | 1,442,182 | 1,329,443 | 1,214,365 |
| Industrials | 95,761 | 98,241 | 96,495 | 102,440 | 105,203 | 103,026 | 97,856 |
| Industrials — for Sales to Electric Utility Industry | 6,768 | 6,267 | 6,744 | 5,722 | 5,372 | 3,560 | 5,079 |
| **Total Generation** | **1,958,745** | **1,854,145** | **1,715,828** | **1,639,771** | **1,552,757** | **1,436,029** | **1,317,300** |
| Imports from Canada & Mexico | 16,848 | 10,496 | 7,043 | 6,169 | 4,902 | 3,654 | 4,051 |
| **Total Kilowatt-hours** | **1,975,593** | **1,864,641** | **1,722,871** | **1,645,940** | **1,557,659** | **1,439,683** | **1,321,351** |
| DISPOSITION | | | | | | | |
| Total Sales to Ultimate Customers | 1,703,203 | 1,577,714 | 1,466,441 | 1,391,359 | 1,307,178 | 1,202,321 | 1,107,023 |
| Exports to Canada & Mexico | 2,570 | 2,752 | 3,514 | 4,209 | 3,830 | 4,285 | 4,350 |
| Energy Used by Producer | 3,137 | 3,081 | 2,854 | 2,301 | 2,515 | 2,469 | 2,559 |
| Company Use & Free Service | 4,912 | 4,412 | 3,894 | 3,984 | 3,626 | 3,399 | 2,956 |
| Lost and Unaccounted For | 166,010 | 178,441 | 149,673 | 141,647 | 135,307 | 124,183 | 106,607 |
| Industrials | 95,761 | 98,241 | 96,495 | 102,440 | 105,203 | 103,026 | 97,856 |
| **Total Kilowatt-hours** | **1,975,593** | **1,864,641** | **1,722,871** | **1,645,940** | **1,557,659** | **1,439,683** | **1,321,351** |

| | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 | 1960 |
|---|---|---|---|---|---|---|---|
| SOURCE | | | | | | | |
| Generation | | | | | | | |
| Total Electric Utility Industry | 1,144,350 | 1,055,252 | 983,990 | 916,793 | 854,773 | 794,273 | 755,374 |
| Industrials | 102,257 | 99,376 | 96,821 | 91,690 | 89,228 | 85,459 | 86,157 |
| Industrials — for Sales to Electric Utility Industry | 2,837 | 2,955 | 2,930 | 2,934 | 2,481 | 1,763 | 2,657 |
| **Total Generation** | **1,249,444** | **1,157,583** | **1,083,741** | **1,011,417** | **946,482** | **881,495** | **844,188** |
| Imports from Canada & Mexico | 4,268 | 3,558 | 6,209 | 2,083 | 2,197 | 3,171 | 5,323 |
| **Total Kilowatt-hours** | **1,253,712** | **1,161,141** | **1,089,950** | **1,013,500** | **948,679** | **884,666** | **849,511** |
| DISPOSITION | | | | | | | |
| Total Sales to Ultimate Customers | 1,038,982 | 953,414 | 890,356 | 830,811 | 776,088 | 720,728 | 683,199 |
| Exports to Canada & Mexico | 3,176 | 3,699 | 4,253 | 1,985 | 1,661 | 917 | 788 |
| Energy Used by Producer | 2,305 | 2,802 | 3,015 | 2,548 | 3,173 | 2,672 | 3,961 |
| Company Use & Free Service | 2,755 | 2,434 | 2,303 | 2,189 | 2,029 | 2,026 | 2,176 |
| Lost and Unaccounted For | 104,237 | 99,416 | 93,202 | 84,277 | 76,500 | 72,864 | 73,230 |
| Industrials | 102,257 | 99,376 | 96,821 | 91,690 | 89,228 | 85,459 | 86,157 |
| **Total Kilowatt-hours** | **1,253,712** | **1,161,141** | **1,089,950** | **1,013,500** | **948,679** | **884,666** | **849,511** |

p Preliminary. e Estimated.

Sources: Energy Information Administration, Statistics Canada and Edison Electric Institute.

# TABLE 10
# WORLD POWER DATA
## FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY
## 1979p

| Country | Installed Capacity (Kilowatts in Thousands) | | | | Energy Production (Kwhr in Millions) | | | | Population (Thousands) | Kwhr Per Capita |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hydro | Nuclear | Thermal | Total | Hydro | Nuclear | Thermal | Total | | |
| United States | 75,626 | 54,594 | 486,025 | 616,245 | 281,432 | 255,396 | 1,786,978 | 2,323,806 | 224,567† | 10,348 |
| U.S.S.R. | 50,000 | 10,000 | 195,000 | 255,000 | 180,000 | 45,000 | 1,015,000 | 1,240,000 | 262,436 | 4,725 |
| Japan | 29,258 | 13,800 | 97,607 | 140,665 | 84,361 | 60,506 | 436,574 | 581,441 | 115,880 | 5,018 |
| Germany (West) | 6,510 | 8,315 | 66,416 | 81,241 | 18,745 | 41,795 | 313,078 | 373,618 | 61,302 | 6,095 |
| Canada | 43,570 | 6,530 | 28,100 | 78,200 | 243,041 | 33,275 | 75,988 | 352,304 | 23,688 | 14,873 |
| United Kingdom | 2,451 | 6,598 | 65,258 | 74,307 | 5,464 | 35,914 | 258,582 | 299,960 | 55,901 | 5,366 |
| France* | 18,700 | 7,200 | 30,771 | 56,671 | 68,950 | 37,908 | 134,266 | 241,124 | 56,078 | 4,300 |
| China (mainland) | 16,000 | – | 36,000 | 52,000 | 73,000 | – | 208,950 | 281,950 | 1,012,197 | 279 |
| Italy** | 15,700 | 552 | 27,748 | 44,000 | 48,088 | 2,700 | 129,734 | 180,522 | 58,977 | 3,061 |
| Brazil | 23,842 | 626 | 4,552 | 29,020 | 106,904 | 239 | 15,703 | 122,846 | 119,175 | 1,031 |
| Spain | 13,730 | 1,120 | 13,878 | 28,728 | 42,275 | 9,036 | 54,100 | 105,411 | 37,077 | 2,843 |
| India | 9,908 | 640 | 17,592 | 28,140 | 42,445 | 4,245 | 66,370 | 113,060 | 667,326 | 1,694 |
| Sweden | 14,650 | 3,900 | 8,450 | 27,000 | 59,779 | 21,000 | 13,508 | 94,287 | 8,296 | 11,365 |
| Poland | 800 | – | 23,100 | 23,900 | 2,460 | – | 115,000 | 117,460 | 35,227 | 3,334 |
| Australia | 5,700 | – | 17,300 | 23,000 | 15,200 | – | 76,800 | 92,000 | 14,417 | 6,381 |

p Preliminary

*Includes Monaco  **Includes San Marino

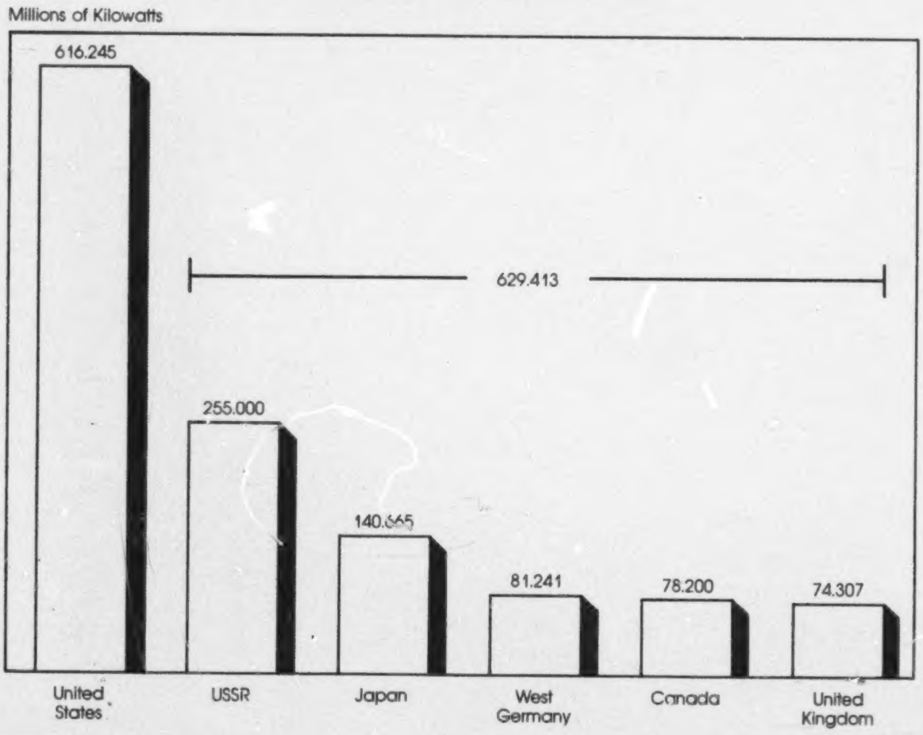
†U.S. population July 1, 1979; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.

Sources: Capacity and production: UN 1979 *Yearbook of World Energy Statistics;* population (except as noted): *The World Almanac and Book of Facts* – 1981.

Chart II-B

## WORLD GENERATING CAPACITY

SIX LARGEST COUNTRIES – 1979



Based on Table 10, as shown above.
Source: 1979 United Nation's Yearbook of World Energy Statistics

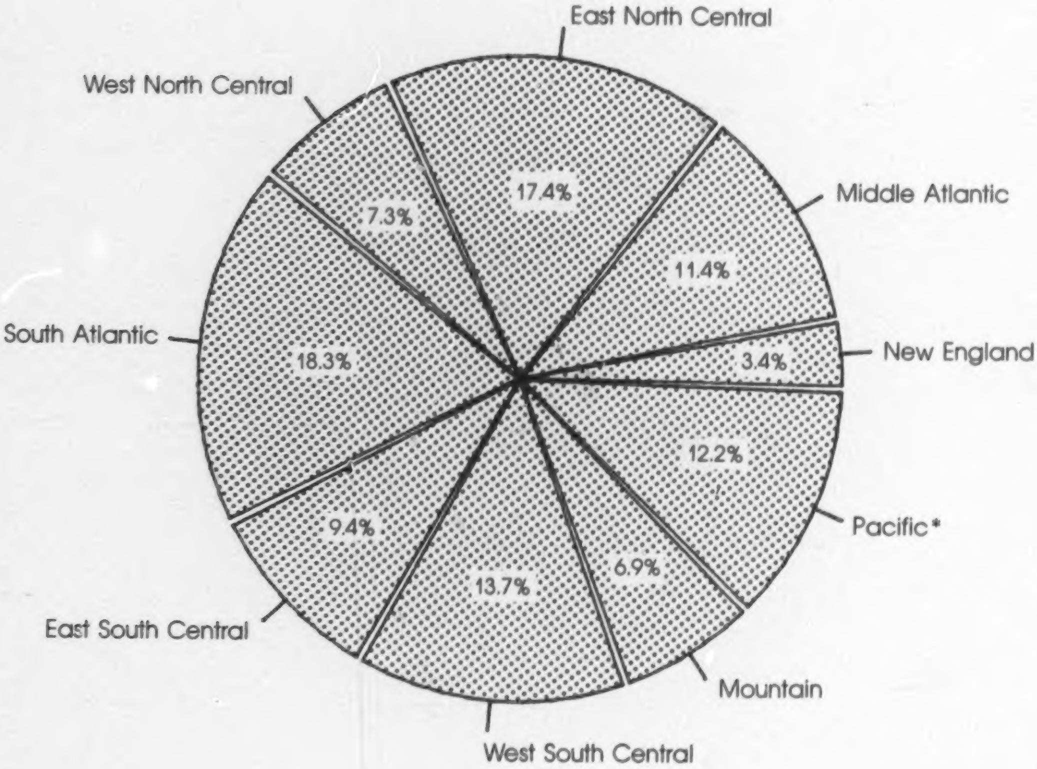
# GENERATION

## SECTION III

Chart III-A

### GENERATION BY CENSUS DIVISIONS

TOTAL ELECTRIC UTILITY INDUSTRY
PERCENT OF MEGAWATT HOURS: 1980



*Includes Alaska and Hawaii.
Based on Table 15, page 24.
Source: Energy Information Administration

# TABLE 12
# GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY*
## BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
## KILOWATT-HOURS IN MILLIONS

| Year | Total Electric Utility Industry | Investor-Owned Utilities | Cooperatives | Subtotal Government | Municipal Utilities | Federal | Power Districts, State Projects |
|---|---|---|---|---|---|---|---|
| TOTAL (Generation by All Types of Prime Mover) | | | | | | | |
| **1980p** | **2,286,414** | **1,782,933** | **63,550** | **439,931** | **86,579** | **235,051** | **118,301** |
| 1979 | 2,247,359 | 1,756,170 | 54,404 | 436,785 | 87,265 | 235,570 | 113,950 |
| 1978 | 2,206,313 | 1,721,163 | 48,717 | 436,433 | 89,700 | 235,257 | 111,476 |
| 1977 | 2,124,166 | 1,684,084 | 44,884 | 395,198 | 83,382 | 213,633 | 98,183 |
| 1976 | 2,037,674 | 1,582,029 | 41,223 | 414,422 | 78,176 | 236,024 | 100,222 |
| 1975 | 1,917,619 | 1,486,844 | 35,328 | 395,447 | 81,518 | 221,226 | 92,703 |
| 1974 | 1,866,436 | 1,442,114 | 33,844 | 390,478 | 78,677 | 219,821 | 91,980 |
| 1973 | 1,856,216 | 1,448,860 | 35,127 | 372,229 | 80,872 | 211,715 | 79,642 |
| 1972 | 1,749,637 | 1,358,929 | 31,714 | 358,994 | 78,931 | 206,668 | 73,395 |
| 1971 | 1,612,589 | 1,248,596 | 27,227 | 336,766 | 72,609 | 194,462 | 69,695 |
| 1970 | 1,531,609 | 1,183,190 | 23,459 | 324,960 | 71,394 | 185,753 | 67,813 |
| 1969 | 1,442,182 | 1,102,162 | 17,513 | 322,507 | 69,614 | 183,245 | 69,648 |
| 1968 | 1,329,443 | 1,019,313 | 14,140 | 295,990 | 63,804 | 170,834 | 61,352 |
| 1967 | 1,214,365 | 928,439 | 12,389 | 273,537 | 57,788 | 162,399 | 53,350 |
| 1966 | 1,144,350 | 880,837 | 11,175 | 252,338 | 52,627 | 153,067 | 46,644 |
| 1965 | 1,055,252 | 809,474 | 8,571 | 237,207 | 49,940 | 145,231 | 42,036 |
| 1964 | 983,990 | 756,183 | 7,934 | 219,873 | 50,263 | 129,936 | 39,674 |
| 1963 | 916,793 | 701,253 | 6,949 | 208,591 | 46,293 | 124,340 | 37,958 |
| 1962 | 852,314 | 651,016 | 6,063 | 195,235 | 41,688 | 115,776 | 37,771 |
| 1961 | 792,039 | 604,883 | 5,241 | 181,915 | 38,753 | 112,177 | 30,985 |
| 1960 | 753,350 | 578,600 | 4,962 | 169,788 | 36,924 | 112,321 | 20,543 |
| HYDRO (Generation of Generators Driven by Water Wheels and Turbines) | | | | | | | |
| **1980p** | **276,039** | **70,500** | **267** | **205,272** | **15,603** | **131,909** | **57,760** |
| 1979 | 279,790 | 74,105 | 244 | 205,441 | 13,270 | 137,212 | 54,959 |
| 1978 | 280,432 | 72,381 | 275 | 207,776 | 14,889 | 136,804 | 56,083 |
| 1977 | 220,446 | 55,343 | 220 | 164,883 | 8,572 | 111,951 | 44,360 |
| 1976 | 283,734 | 68,034 | 221 | 215,479 | 14,444 | 144,218 | 56,817 |
| 1975 | 300,065 | 81,524 | 251 | 218,290 | 16,619 | 142,943 | 58,728 |
| 1974 | 300,928 | 81,204 | 197 | 219,527 | 17,218 | 137,882 | 64,427 |
| 1973 | 271,634 | 77,451 | 229 | 193,954 | 13,439 | 123,148 | 57,367 |
| 1972 | 272,626 | 76,820 | 220 | 195,586 | 15,152 | 126,328 | 54,106 |
| 1971 | 266,314 | 76,521 | 243 | 189,550 | 14,765 | 121,573 | 53,212 |
| 1970 | 247,456 | 70,587 | 214 | 176,655 | 14,453 | 110,695 | 51,507 |
| 1969 | 250,193 | 74,833 | 215 | 175,145 | 15,494 | 105,687 | 53,964 |
| 1968 | 222,491 | 67,201 | 239 | 155,051 | 13,043 | 94,874 | 47,134 |
| 1967 | 221,518 | 72,072 | 223 | 149,223 | 10,602 | 96,228 | 42,393 |
| 1966 | 194,756 | 62,827 | 214 | 131,715 | 8,106 | 86,260 | 37,349 |
| 1965 | 193,851 | 67,366 | 281 | 126,204 | 8,580 | 82,769 | 34,855 |
| 1964 | 177,073 | 60,323 | 219 | 116,531 | 8,460 | 75,771 | 32,300 |
| 1963 | 165,755 | 59,439 | 213 | 106,103 | 7,477 | 68,494 | 30,132 |
| 1962 | 168,283 | 62,786 | 225 | 105,272 | 6,215 | 68,276 | 30,781 |
| 1961 | 151,850 | 56,012 | 224 | 95,614 | 6,229 | 65,039 | 24,346 |
| 1960 | 145,516 | 60,447 | 234 | 84,835 | 5,814 | 64,764 | 14,257 |
| CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines) | | | | | | | |
| **1980p** | **1,755,634** | **1,499,918** | **62,803** | **192,913** | **63,899** | **83,715** | **45,299** |
| 1979 | 1,708,256 | 1,472,652 | 53,609 | 181,995 | 65,100 | 77,948 | 38,947 |
| 1978 | 1,644,756 | 1,415,266 | 47,887 | 181,603 | 66,212 | 81,535 | 33,856 |
| 1977 | 1,648,105 | 1,422,684 | 44,193 | 181,228 | 65,402 | 83,202 | 32,624 |
| 1976 | 1,557,647 | 1,346,179 | 38,409 | 173,059 | 57,547 | 87,584 | 27,928 |
| 1975 | 1,439,374 | 1,249,623 | 33,647 | 156,104 | 57,958 | 75,549 | 22,597 |
| 1974 | 1,445,808 | 1,261,009 | 32,887 | 151,912 | 56,605 | 75,640 | 19,667 |
| 1973 | 1,494,901 | 1,292,888 | 34,108 | 167,905 | 62,422 | 88,240 | 17,243 |
| 1972 | 1,416,218 | 1,229,998 | 30,713 | 155,507 | 58,814 | 80,324 | 16,369 |
| 1971 | 1,301,960 | 1,135,674 | 26,245 | 140,041 | 53,246 | 72,866 | 13,929 |
| 1970 | 1,256,294 | 1,092,564 | 22,610 | 141,120 | 52,380 | 75,048 | 13,692 |
| 1969 | 1,172,481 | 1,016,361 | 16,760 | 139,360 | 49,800 | 77,544 | 12,016 |
| 1968 | 1,089,239 | 942,927 | 13,332 | 132,980 | 46,744 | 75,927 | 10,309 |
| 1967 | 980,336 | 850,541 | 11,434 | 118,361 | 43,292 | 66,136 | 8,933 |
| 1966 | 938,910 | 813,329 | 10,104 | 115,477 | 40,405 | 66,769 | 8,303 |
| 1965 | 852,655 | 738,319 | 7,401 | 106,935 | 37,333 | 62,419 | 7,183 |
| 1964 | 798,564 | 692,416 | 6,855 | 99,293 | 37,891 | 54,123 | 7,279 |
| 1963 | 742,780 | 638,431 | 5,915 | 98,434 | 34,893 | 55,794 | 7,747 |
| 1962 | 676,956 | 585,724 | 5,101 | 86,131 | 31,685 | 47,458 | 6,988 |
| 1961 | 633,872 | 546,954 | 4,313 | 82,605 | 28,871 | 47,096 | 6,638 |
| 1960 | 602,824 | 517,373 | 4,073 | 81,378 | 27,582 | 47,512 | 6,284 |

See page 21 for footnotes.

# TABLE 12 (continued)
## GENERATION – TOTAL ELECTRIC UTILITY INDUSTRY*
### BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
### KILOWATT-HOURS IN MILLIONS

| Year | Total Electric Utility Industry | Investor-Owned Utilities | Cooperatives | Subtotal Government | Municipal Utilities | Federal | Power Districts, State Projects |
|---|---|---|---|---|---|---|---|
| **NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)** | | | | | | | |
| **1980p** | **251,121** | **211,831** | **214** | **39,076** | **4,426** | **19,413** | **15,237** |
| 1979 | 255,155 | 208,788 | 201 | 46,166 | 5,729 | 20,402 | 20,035 |
| 1978 | 276,403 | 232,742 | 174 | 43,487 | 5,046 | 16,911 | 21,530 |
| 1977 | 250,882 | 205,257 | 89 | 45,536 | 5,865 | 18,473 | 21,198 |
| 1976 | 191,107 | 167,098 | 2,157 | 21,852 | 2,161 | 4,214 | 15,477 |
| 1975 | 172,506 | 154,985 | 951 | 16,570 | 2,470 | 2,722 | 11,378 |
| 1974 | 113,727 | 99,042 | 313 | 14,372 | 198 | 6,289 | 7,885 |
| 1973 | 83,334 | 77,790 | 199 | 5,345 | – | 314 | 5,031 |
| 1972 | 54,092 | 50,933 | 240 | 2,919 | – | – | 2,919 |
| 1971 | 38,106 | 35,357 | 196 | 2,553 | – | – | 2,553 |
| 1970 | 21,797 | 19,063 | 120 | 2,614 | – | – | 2,614 |
| 1969 | 13,928 | 10,261 | – | 3,667 | – | – | 3,667 |
| 1968 | 12,528 | 8,611 | 15 | 3,902 | – | – | 3,902 |
| 1967 | 7,655 | 5,499 | 141 | 2015 | – | – | 2,015 |
| 1966 | 5,520 | 4,400 | 129 | 991 | 2 | – | 989 |
| 1965 | 3,657 | 3,497 | 143 | 17 | 22 | – | (5) |
| 1964 | 3,343 | 3,179 | 56 | 108 | 17 | – | 91 |
| 1963 | 3,212 | 3,136 | 1 | 75 | – | – | 75 |
| 1962 | 2,270 | 2,270 | – | – | – | – | – |
| 1961 | 1,692 | 1,692 | – | – | – | – | – |
| 1960 | 518 | 518 | – | – | – | – | – |
| **INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)** | | | | | | | |
| **1980p** | **3,620** | **684** | **266** | **2,670** | **2,651** | **14** | **5** |
| 1979 | 4,158 | 625 | 350 | 3,183 | 3,166 | 8 | 9 |
| 1978 | 4,722 | 774 | 381 | 3,567 | 3,553 | 7 | 7 |
| 1977 | 4,733 | 800 | 382 | 3,551 | 3,543 | 7 | 1 |
| 1976 | 5,186 | 718 | 436 | 4,032 | 4,024 | 8 | – |
| 1975 | 5,674 | 712 | 479 | 4,483 | 4,471 | 12 | – |
| 1974 | 5,973 | 859 | 447 | 4,667 | 4,656 | 10 | 1 |
| 1973 | 6,347 | 731 | 591 | 5,025 | 5,011 | 13 | 1 |
| 1972 | 6,701 | 1,178 | 541 | 4,982 | 4,965 | 16 | 1 |
| 1971 | 6,209 | 1,044 | 543 | 4,622 | 4,598 | 23 | 1 |
| 1970 | 6,062 | 976 | 515 | 4,571 | 4,561 | 10 | – |
| 1969 | 5,580 | 707 | 538 | 4,335 | 4,320 | 14 | 1 |
| 1968 | 5,185 | 574 | 554 | 4,057 | 4,017 | 33 | 7 |
| 1967 | 4,856 | 327 | 591 | 3,938 | 3,894 | 35 | 9 |
| 1966 | 5,164 | 281 | 728 | 4,155 | 4,114 | 38 | 3 |
| 1965 | 5,089 | 292 | 746 | 4,051 | 4,005 | 43 | 3 |
| 1964 | 5,010 | 265 | 804 | 3,941 | 3,895 | 42 | 4 |
| 1963 | 5,046 | 247 | 820 | 3,979 | 3,923 | 52 | 4 |
| 1962 | 4,805 | 236 | 737 | 3,832 | 3,788 | 42 | 2 |
| 1961 | 4,625 | 225 | 704 | 3,696 | 3,653 | 42 | 1 |
| 1960 | 4,492 | 262 | 655 | 3,575 | 3,528 | 45 | 2 |

* Alaska and Hawaii included since 1963.

p Preliminary. ( ) Denotes negative figure.

Source: Energy Information Administration.

# TABLE 13
# GENERATION PER KILOWATT OF INSTALLED NAME PLATE CAPACITY
## TOTAL ELECTRIC UTILITY INDUSTRY
### BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
### KILOWATT-HOURS

| Year | Total Electric Utility Industry | Investor-Owned | Cooperatives | Government-Owned | Total Electric Utility Industry | Investor-Owned | Cooperatives | Government-Owned |
|---|---|---|---|---|---|---|---|---|
| | TOTAL | | | | HYDRO | | | |
| **1980p** | **3,773** | **3,789** | **4,344** | **3,641** | **3,639** | **2,929** | **3,985** | **3,968** |
| 1979 | 3,816 | 3,827 | 4,272 | 3,725 | 3,823 | 3,103 | 3,642 | 4,173 |
| 1978 | 3,872 | 3,859 | 4,326 | 3,877 | 4,013 | 3,080 | 4,104 | 4,486 |
| 1977 | 3,892 | 3,945 | 4,308 | 3,646 | 3,230 | 2,391 | 3,284 | 3,660 |
| 1976 | 3,920 | 3,884 | 4,320 | 4,024 | 4,244 | 2,942 | 3,299 | 4,935 |
| 1975 | 3,895 | 3,836 | 4,254 | 4,102 | 4,634 | 3,556 | 4,149 | 5,226 |
| 1974 | 4,075 | 3,991 | 4,585 | 4,371 | 4,802 | 3,649 | 3,582 | 5,439 |
| 1973 | 4,427 | 4,385 | 5,021 | 4,545 | 4,597 | 3,788 | 4,164 | 5,027 |
| 1972 | 4,557 | 4,510 | 5,210 | 4,693 | 4,855 | 4,022 | 4,074 | 5,287 |
| 1971 | 4,541 | 4,532 | 5,122 | 4,534 | 4,800 | 4,035 | 4,418 | 5,198 |
| 1970 | 4,681 | 4,707 | 4,949 | 4,570 | 4,591 | 3,785 | 3,821 | 5,018 |
| 1969 | 4,772 | 4,783 | 4,518 | 4,749 | 4,815 | 4,069 | 3,805 | 5,226 |
| 1968 | 4,745 | 4,804 | 4,382 | 4,571 | 4,482 | 3,685 | 4,193 | 4,946 |
| 1967 | 4,697 | 4,770 | 4,289 | 4,482 | 4,759 | 4,176 | 3,912 | 5,105 |
| 1966 | 4,729 | 4,850 | 4,411 | 4,363 | 4,388 | 3,869 | 3,722 | 4,690 |
| 1965 | 4,604 | 4,689 | 3,963 | 4,360 | 4,510 | 4,292 | 4,845 | 4,635 |
| 1964 | 4,547 | 4,637 | 4,079 | 4,278 | 4,298 | 4,033 | 3,776 | 4,450 |
| 1963 | 4,561 | 4,623 | 4,070 | 4,380 | 4,270 | 4,207 | 3,822 | 4,307 |
| 1962 | 4,586 | 4,628 | 4,064 | 4,466 | 4,622 | 4,623 | 4,592 | 4,620 |
| 1961 | 4,543 | 4,562 | 3,696 | 4,512 | 4,476 | 4,168 | 4,667 | 4,679 |
| 1960 | 4,638 | 4,677 | 3,929 | 4,536 | 4,588 | 4,568 | 5,258 | 4,600 |
| | STEAM | | | | INTERNAL COMBUSTION | | | |
| **1980p** | **3,825** | **3,849** | **4,433** | **3,528** | **655** | **372** | **764** | **800** |
| 1979 | 3,849 | 3,881 | 4,381 | 3,527 | 753 | 347 | 903 | 956 |
| 1978 | 3,885 | 3,916 | 4,446 | 3,578 | 872 | 457 | 992 | 1,069 |
| 1977 | 4,022 | 4,048 | 4,423 | 3,777 | 893 | 487 | 1,129 | 1,070 |
| 1976 | 3,906 | 3,956 | 4,437 | 3,478 | 1,000 | 454 | 1,313 | 1,233 |
| 1975 | 3,815 | 3,868 | 4,375 | 3,358 | 1,127 | 479 | 1,423 | 1,396 |
| 1974 | 3,995 | 4,029 | 4,756 | 3,629 | 1,206 | 592 | 1,294 | 1,478 |
| 1973 | 4,441 | 4,444 | 5,200 | 4,298 | 1,300 | 478 | 1,723 | 1,668 |
| 1972 | 4,551 | 4,563 | 5,440 | 4,318 | 1,434 | 778 | 1,577 | 1,769 |
| 1971 | 4,540 | 4,589 | 5,377 | 4,063 | 1,406 | 769 | 1,578 | 1,702 |
| 1970 | 4,751 | 4,803 | 5,234 | 4,321 | 1,417 | 751 | 1,510 | 1,733 |
| 1969 | 4,820 | 4,869 | 4,819 | 4,493 | 1,364 | 593 | 1,575 | 1,695 |
| 1968 | 4,862 | 4,934 | 4,734 | 4,425 | 1,330 | 535 | 1,583 | 1,639 |
| 1967 | 4,742 | 4,851 | 4,671 | 4,096 | 1,326 | 364 | 1,672 | 1,633 |
| 1966 | 4,864 | 4,967 | 4,816 | 4,247 | 1,502 | 368 | 2,074 | 1,789 |
| 1965 | 4,682 | 4,749 | 4,288 | 4,291 | 1,523 | 390 | 2,159 | 1,802 |
| 1964 | 4,664 | 4,720 | 4,467 | 4,320 | 1,526 | 358 | 2,365 | 1,790 |
| 1963 | 4,690 | 4,688 | 4,463 | 4,719 | 1,597 | 316 | 2,491 | 1,875 |
| 1962 | 4,638 | 4,651 | 4,546 | 4,553 | 1,599 | 350 | 2,296 | 1,906 |
| 1961 | 4,622 | 4,613 | 4,096 | 4,595 | 1,601 | 337 | 2,220 | 1,941 |
| 1960 | 4,715 | 4,714 | 4,486 | 4,739 | 1,634 | 424 | 2,113 | 1,963 |

p Preliminary. Source: Energy Information Administration data as shown in Tables 2 and 12.

# TABLE 14
# GENERATION IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
## BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

| Year | Investor-Owned | Cooperatives | Government-Owned | Total | Investor-Owned | Cooperatives | Government-Owned | Total | Investor-Owned | Cooperatives | Government-Owned |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | TOTAL | | | HYDRO | | | | CONVENTIONAL STEAM | | | |
| **1980p** | **78.0** | **2.8** | **19.2** | **12.1** | **3.1** | **0.0** | **9.0** | **76.8** | **65.6** | **2.8** | **8.4** |
| 1979 | 78.1 | 2.4 | 19.5 | 12.4 | 3.3 | 0.0 | 9.1 | 76.0 | 65.5 | 2.4 | 8.1 |
| 1978 | 78.0 | 2.2 | 19.8 | 12.7 | 3.3 | 0.0 | 9.4 | 74.6 | 54.2 | 2.2 | 8.2 |
| 1977 | 79.3 | 2.1 | 18.6 | 10.4 | 2.6 | 0.0 | 7.8 | 77.6 | 67.0 | 2.1 | 8.5 |
| 1976 | 77.7 | 2.0 | 20.3 | 13.9 | 3.3 | 0.0 | 10.6 | 76.4 | 66.1 | 1.9 | 8.4 |
| 1975 | 77.5 | 1.9 | 20.6 | 15.6 | 4.2 | 0.0 | 11.4 | 75.1 | 65.2 | 1.8 | 8.1 |
| 1974 | 77.3 | 1.8 | 20.9 | 16.1 | 4.4 | 0.0 | 11.7 | 77.5 | 67.6 | 1.8 | 8.1 |
| 1973 | 78.1 | 1.9 | 20.0 | 14.6 | 4.2 | 0.0 | 10.4 | 80.6 | 69.7 | 1.9 | 9.0 |
| 1972 | 77.7 | 1.8 | 20.5 | 15.6 | 4.4 | 0.0 | 11.2 | 80.9 | 70.3 | 1.8 | 8.8 |
| 1971 | 77.4 | 1.7 | 20.9 | 16.5 | 4.7 | 0.0 | 11.8 | 80.7 | 70.4 | 1.7 | 8.6 |
| 1970 | 77.3 | 1.5 | 21.2 | 16.2 | 4.7 | 0.0 | 11.5 | 82.0 | 71.3 | 1.5 | 9.2 |
| 1969 | 76.4 | 1.2 | 22.4 | 17.3 | 5.2 | 0.0 | 12.1 | 81.3 | 70.4 | 1.2 | 9.7 |
| 1968 | 76.7 | 1.0 | 22.3 | 16.8 | 5.1 | 0.0 | 11.7 | 81.9 | 70.9 | 1.0 | 10.0 |
| 1967 | 76.5 | 1.0 | 22.5 | 18.2 | 5.9 | 0.0 | 12.3 | 80.7 | 70.1 | 0.9 | 9.7 |
| 1966 | 77.0 | 1.0 | 22.0 | 17.0 | 5.5 | 0.0 | 11.5 | 82.1 | 71.1 | 0.9 | 10.1 |
| 1965 | 76.7 | 0.8 | 22.5 | 18.4 | 6.4 | 0.0 | 12.0 | 80.8 | 70.0 | 0.7 | 10.1 |
| 1964 | 76.8 | 0.8 | 22.4 | 18.0 | 6.1 | 0.0 | 11.9 | 81.2 | 70.4 | 0.7 | 10.1 |
| 1963 | 76.5 | 0.7 | 22.8 | 18.1 | 6.5 | 0.0 | 11.6 | 81.1 | 69.7 | 0.6 | 10.8 |
| 1962 | 76.4 | 0.7 | 22.9 | 19.7 | 7.4 | 0.0 | 12.3 | 79.4 | 68.7 | 0.6 | 10.1 |
| 1961 | 76.4 | 0.6 | 23.0 | 19.2 | 7.1 | 0.0 | 12.1 | 80.0 | 69.1 | 0.5 | 10.4 |
| 1960 | 76.8 | 0.7 | 22.5 | 19.3 | 8.0 | 0.0 | 11.3 | 80.0 | 68.7 | 0.6 | 10.7 |
| | | | | NUCLEAR STEAM | | | | INTERNAL COMBUSTION | | | |
| **1980p** | | | | **11.0** | **9.3** | **0.0** | **1.7** | **0.1** | **0.0** | **0.0** | **0.1** |
| 1979 | | | | 11.4 | 9.3 | 0.0 | 2.1 | 0.2 | 0.0 | 0.0 | 0.2 |
| 1978 | | | | 12.5 | 10.5 | 0.0 | 2.0 | 0.2 | 0.0 | 0.0 | 0.2 |
| 1977 | | | | 11.8 | 9.7 | 0.0 | 2.1 | 0.2 | 0.0 | 0.0 | 0.2 |
| 1976 | | | | 9.4 | 8.2 | 0.1 | 1.1 | 0.3 | 0.1 | 0.0 | 0.2 |
| 1975 | | | | 9.0 | 8.0 | 0.1 | 0.9 | 0.3 | 0.1 | 0.0 | 0.2 |
| 1974 | | | | 6.1 | 5.3 | 0.0 | 0.8 | 0.3 | 0.0 | 0.0 | 0.3 |
| 1973 | | | | 4.5 | 4.2 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.3 |
| 1972 | | | | 3.1 | 2.9 | 0.0 | 0.2 | 0.4 | 0.1 | 0.0 | 0.3 |
| 1971 | | | | 2.4 | 2.2 | 0.0 | 0.2 | 0.4 | 0.1 | 0.0 | 0.3 |
| 1970 | | | | 1.4 | 1.2 | 0.0 | 0.2 | 0.4 | 0.1 | 0.0 | 0.3 |
| 1969 | | | | 1.0 | 0.7 | 0.0 | 0.3 | 0.4 | 0.1 | 0.0 | 0.3 |
| 1968 | | | | 1.0 | 0.7 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.3 |
| 1967 | | | | 0.7 | 0.5 | 0.0 | 0.2 | 0.4 | 0.0 | 0.1 | 0.3 |
| 1966 | | | | 0.5 | 0.4 | 0.0 | 0.1 | 0.4 | 0.0 | 0.1 | 0.3 |
| 1965 | | | | 0.3 | 0.3 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.4 |
| 1964 | | | | 0.3 | 0.3 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.4 |
| 1963 | | | | 0.3 | 0.3 | 0.0 | 0.0 | 0.5 | 0.0 | 0.1 | 0.4 |
| 1962 | | | | 0.3 | 0.3 | 0.0 | 0.0 | 0.6 | 0.0 | 0.1 | 0.5 |
| 1961 | | | | 0.2 | 0.2 | 0.0 | 0.0 | 0.6 | 0.0 | 0.1 | 0.5 |
| 1960 | | | | 0.1 | 0.1 | 0.0 | 0.0 | 0.6 | 0.0 | 0.1 | 0.5 |

p Preliminary. Source: Energy Information Administration data as shown in Table 12.

# TABLE 15

## GENERATION — TOTAL ELECTRIC UTILITY INDUSTRY

### BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR 1979 and 1980p — KILOWATT-HOURS IN MILLIONS

| Division/State | Total Electric Utility Industry | | Hydro | | Conventional Steam | | Nuclear Steam | | Internal Combustion | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 |
| **Total United States** | **2,286,414** | **2,247,359** | **276,039** | **279,790** | **1,755,634** | **1,708,256** | **251,121** | **255,155** | **3,620** | **4,158** |
| Maine | 7,901 | 7,465 | 1,443 | 1,774 | 2,034 | 1,180 | 4,404 | 4,497 | 20 | 14 |
| New Hampshire | 5,971 | 6,148 | 871 | 1,051 | 5,100 | 5,097 | — | — | — | — |
| Vermont | 3,821 | 4,403 | 746 | 858 | 92 | 94 | 2,979 | 3,449 | 4 | 2 |
| Massachusetts | 34,849 | 35,769 | 101 | 377 | 31,351 | 29,184 | 3,232 | 6,077 | 165 | 131 |
| Rhode Island | 963 | 594 | 1 | 3 | 950 | 582 | — | — | 12 | 9 |
| Connecticut | 24,699 | 23,874 | 251 | 455 | 12,611 | 10,708 | 11,835 | 12,706 | 2 | 5 |
| **New England** | **78,204** | **78,253** | **3,413** | **4,518** | **52,138** | **46,845** | **22,450** | **26,729** | **203** | **161** |
| New York | 108,599 | 105,325 | 26,239 | 26,245 | 63,045 | 60,508 | 19,277 | 18,508 | 38 | 64 |
| New Jersey | 29,427 | 26,554 | (285) | (285) | 22,085 | 20,229 | 7,627 | 6,610 | — | — |
| Pennsylvania | 122,511 | 127,760 | 735 | 1,221 | 109,674 | 107,731 | 12,093 | 18,796 | 9 | 12 |
| **Middle Atlantic** | **260,537** | **259,639** | **26,689** | **27,181** | **194,804** | **188,468** | **38,997** | **43,914** | **47** | **76** |
| Ohio | 110,243 | 116,795 | 6 | 4 | 108,071 | 113,569 | 2,119 | 3,163 | 47 | 59 |
| Indiana | 70,618 | 67,034 | 475 | 438 | 70,104 | 66,547 | — | — | 39 | 49 |
| Illinois | 103,416 | 104,649 | 122 | 112 | 75,382 | 76,854 | 27,741 | 27,463 | 171 | 220 |
| Michigan | 74,847 | 78,218 | 1,083 | 1,185 | 57,569 | 61,498 | 15,891 | 15,139 | 304 | 396 |
| Wisconsin | 37,832 | 38,049 | 1,851 | 2,026 | 26,033 | 25,573 | 9,912 | 10,403 | 36 | 47 |
| **East North Central** | **396,956** | **404,745** | **3,537** | **3,765** | **337,159** | **344,041** | **55,663** | **56,168** | **597** | **771** |
| Minnesota | 31,537 | 30,968 | 642 | 765 | 20,769 | 18,534 | 10,027 | 11,504 | 99 | 165 |
| Iowa | 21,799 | 20,273 | 945 | 897 | 18,258 | 16,378 | 2,563 | 2,889 | 33 | 109 |
| Missouri | 48,928 | 47,124 | 559 | 1,100 | 48,169 | 45,799 | — | — | 200 | 225 |
| North Dakota | 15,828 | 13,878 | 2,513 | 2,736 | 13,314 | 11,134 | — | — | 1 | 8 |
| South Dakota | 8,631 | 9,200 | 5,786 | 6,326 | 2,844 | 2,866 | — | — | 1 | 8 |
| Nebraska | 16,309 | 17,413 | 1,336 | 1,245 | 9,080 | 7,342 | 5,783 | 8,659 | 110 | 167 |
| Kansas | 25,130 | 23,617 | 8 | 4 | 24,425 | 22,919 | — | — | 697 | 694 |
| **West North Central** | **168,162** | **162,473** | **11,789** | **13,073** | **136,859** | **124,972** | **18,373** | **23,052** | **1,141** | **1,376** |
| Delaware | 6,662 | 6,980 | — | — | 6,662 | 6,980 | — | — | — | — |
| Maryland | 32,173 | 34,056 | 1,269 | 2,191 | 19,847 | 22,076 | 10,947 | 9,674 | 110 | 115 |
| District of Columbia | 699 | 1,036 | — | — | 699 | 1,036 | — | — | — | — |
| Virginia | 34,304 | 34,989 | 864 | 1,513 | 21,947 | 26,403 | 11,466 | 7,056 | 27 | 17 |
| West Virginia | 70,795 | 67,760 | 423 | 514 | 70,372 | 67,246 | — | — | — | — |
| North Carolina | 72,069 | 68,157 | 5,485 | 7,913 | 60,809 | 53,435 | 5,775 | 6,809 | — | — |
| South Carolina | 41,860 | 41,620 | 2,978 | 3,908 | 21,478 | 19,492 | 17,404 | 18,220 | — | — |
| Georgia | 63,312 | 56,193 | 4,369 | 4,374 | 50,507 | 46,724 | 8,436 | 5,095 | — | — |
| Florida | 95,901 | 93,994 | 215 | 241 | 78,594 | 77,968 | 16,737 | 15,391 | 355 | 394 |
| **South Atlantic** | **417,775** | **404,785** | **15,603** | **20,654** | **330,915** | **321,360** | **70,765** | **62,245** | **492** | **526** |
| Kentucky | 57,104 | 54,765 | 2,939 | 3,941 | 54,165 | 50,824 | — | — | — | — |
| Tennessee | 60,214 | 58,710 | 8,765 | 12,306 | 50,930 | 46,404 | 519 | — | — | — |
| Alabama | 78,297 | 76,691 | 9,386 | 11,844 | 45,413 | 42,757 | 23,498 | 22,090 | — | — |
| Mississippi | 18,500 | 16,639 | — | — | 18,500 | 16,639 | — | — | — | — |
| **East South Central** | **214,115** | **206,805** | **21,090** | **28,091** | **169,008** | **156,624** | **24,017** | **22,090** | **—** | **—** |
| Arkansas | 19,684 | 16,790 | 1,692 | 3,375 | 10,149 | 9,532 | 7,833 | 3,873 | 10 | 10 |
| Louisiana | 45,739 | 46,655 | — | — | 45,670 | 46,566 | — | — | 69 | 89 |
| Oklahoma | 44,634 | 41,614 | 1,315 | 2,324 | 43,186 | 39,163 | — | — | 131 | 127 |
| Texas | 202,991 | 187,554 | 981 | 1,201 | 201,835 | 186,091 | — | — | 175 | 262 |
| **West South Central** | **313,048** | **292,613** | **3,988** | **6,900** | **300,842** | **281,352** | **7,833** | **3,873** | **385** | **488** |
| Montana | 15,497 | 15,755 | 9,966 | 10,343 | 5,531 | 5,412 | — | — | — | — |
| Idaho | 9,513 | 9,205 | 9,509 | 9,165 | 4 | 40 | — | — | — | — |
| Wyoming | 22,354 | 22,056 | 1,109 | 1,053 | 21,243 | 21,000 | — | — | 2 | 3 |
| Colorado | 23,637 | 22,520 | 1,716 | 1,612 | 21,227 | 20,633 | 667 | 213 | 27 | 62 |
| New Mexico | 24,675 | 20,501 | 94 | 68 | 24,507 | 20,347 | — | — | 74 | 86 |
| Arizona | 36,876 | 34,900 | 9,821 | 7,240 | 27,055 | 27,660 | — | — | — | — |
| Utah | 12,114 | 10,791 | 823 | 803 | 11,286 | 9,973 | — | — | 5 | 15 |
| Nevada | 14,123 | 14,728 | 2,372 | 1,716 | 11,751 | 13,010 | — | — | — | 2 |
| **Mountain** | **158,789** | **150,456** | **35,410** | **32,000** | **122,604** | **118,075** | **667** | **213** | **108** | **168** |
| Washington | 92,325 | 90,838 | 82,982 | 79,377 | 7,302 | 7,848 | 2,041 | 3,613 | — | — |
| Oregon | 36,558 | 35,326 | 30,193 | 29,836 | 970 | 995 | 5,395 | 4,495 | — | — |
| California | 140,348 | 151,978 | 40,786 | 33,917 | 94,523 | 109,210 | 4,920 | 8,763 | 119 | 88 |
| **Pacific** | **269,231** | **278,142** | **153,961** | **143,130** | **102,795** | **118,053** | **12,356** | **16,871** | **119** | **88** |
| Alaska | 3,087 | 3,025 | 539 | 458 | 2,283 | 2,298 | — | — | 265 | 269 |
| Hawaii | 6,510 | 6,423 | 20 | 20 | 6,227 | 6,168 | — | — | 263 | 235 |
| **Alaska & Hawaii** | **9,597** | **9,448** | **559** | **478** | **8,510** | **8,466** | **—** | **—** | **528** | **504** |

p Preliminary. ( ) Denotes negative figure. Source: Energy Information Administration.

# TABLE 16
## GENERATION – INVESTOR-OWNED ELECTRIC UTILITIES
### BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
### 1979 and 1980p – KILOWATT-HOURS IN MILLIONS

| Division/State | Total Investor-Owned Utilities | | Hydro | | Conventional Steam | | Nuclear Steam | | Internal Combustion | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 |
| **Total United States** | **1,782,933** | **1,756,170** | **70,500** | **74,105** | **1,499,918** | **1,472,652** | **211,831** | **208,788** | **684** | **625** |
| Maine | 7,884 | 7,450 | 1,436 | 1,767 | 2,034 | 1,180 | 4,404 | 4,497 | 10 | 6 |
| New Hampshire | 5,971 | 6,148 | 871 | 1,051 | 5,100 | 5,097 | — | — | — | — |
| Vermont | 3,691 | 4,269 | 697 | 811 | 11 | 7 | 2,979 | 3,449 | 4 | 2 |
| Massachusetts | 34,331 | 35,238 | 63 | 333 | 30,923 | 28,739 | 3,232 | 6,077 | 113 | 89 |
| Rhode Island | 962 | 591 | — | — | 950 | 582 | — | — | 12 | 9 |
| Connecticut | 24,664 | 23,817 | 242 | 440 | 12,587 | 10,671 | 11,835 | 12,706 | — | — |
| **New England** | **77,503** | **77,513** | **3,309** | **4,402** | **51,605** | **46,276** | **22,450** | **26,729** | **139** | **106** |
| New York | 75,162 | 72,508 | 3,179 | 3,813 | 60,115 | 57,946 | 11,864 | 10,745 | 4 | 4 |
| New Jersey | 29,130 | 26,293 | (287) | (290) | 21,790 | 19,973 | 7,627 | 6,610 | — | — |
| Pennsylvania | 122,496 | 127,748 | 735 | 1,221 | 109,659 | 107,719 | 12,093 | 18,796 | 9 | 12 |
| **Middle Atlantic** | **226,788** | **226,549** | **3,627** | **4,744** | **191,564** | **185,638** | **31,584** | **36,151** | **13** | **16** |
| Ohio | 109,201 | 115,789 | — | — | 107,058 | 112,597 | 2,119 | 3,163 | 24 | 29 |
| Indiana | 68,237 | 64,774 | 474 | 438 | 67,759 | 64,331 | — | — | 4 | 5 |
| Illinois | 100,109 | 101,142 | 65 | 53 | 72,301 | 73,624 | 27,741 | 27,463 | 2 | 2 |
| Michigan | 70,358 | 73,431 | 855 | 960 | 53,590 | 57,283 | 15,891 | 15,139 | 22 | 49 |
| Wisconsin | 33,314 | 34,133 | 1,673 | 1,838 | 21,943 | 22,091 | 9,698 | 10,202 | — | 2 |
| **East North Central** | **381,219** | **389,269** | **3,067** | **3,289** | **322,651** | **329,926** | **55,449** | **55,967** | **52** | **87** |
| Minnesota | 30,257 | 29,458 | 630 | 748 | 19,600 | 17,206 | 10,027 | 11,504 | — | — |
| Iowa | 20,387 | 18,604 | 932 | 886 | 16,887 | 14,804 | 2,563 | 2,889 | 5 | 25 |
| Missouri | 35,881 | 35,045 | 254 | 461 | 35,625 | 34,581 | — | — | 2 | 3 |
| North Dakota | 592 | 562 | — | — | 591 | 554 | — | — | 1 | 8 |
| South Dakota | 2,845 | 2,874 | — | — | 2,844 | 2,866 | — | — | 1 | 8 |
| Nebraska | — | — | — | — | — | — | — | — | — | — |
| Kansas | 21,259 | 19,684 | 8 | 4 | 21,251 | 19,675 | — | — | — | 5 |
| **West North Central** | **111,221** | **106,227** | **1,824** | **2,099** | **96,798** | **89,686** | **12,590** | **14,393** | **9** | **49** |
| Delaware | 6,166 | 6,501 | — | — | 6,166 | 6,501 | — | — | — | — |
| Maryland | 32,076 | 33,949 | 1,269 | 2,191 | 19,847 | 22,076 | 10,947 | 9,674 | 13 | 8 |
| District of Columbia | 699 | 1,036 | — | — | 699 | 1,036 | — | — | — | — |
| Virginia | 33,736 | 33,972 | 381 | 631 | 21,872 | 26,273 | 11,466 | 7,056 | 17 | 12 |
| West Virginia | 70,795 | 67,760 | 423 | 514 | 70,372 | 67,246 | — | — | — | — |
| North Carolina | 70,685 | 66,340 | 4,139 | 6,136 | 60,771 | 53,395 | 5,775 | 6,809 | — | — |
| South Carolina | 33,131 | 34,460 | 1,393 | 2,125 | 14,334 | 14,115 | 17,404 | 18,220 | — | — |
| Georgia | 61,148 | 53,880 | 2,220 | 2,075 | 50,492 | 46,710 | 8,436 | 5,095 | — | — |
| Florida | 81,978 | 79,758 | — | — | 65,239 | 64,365 | 16,737 | 15,391 | 2 | 2 |
| **South Atlantic** | **390,414** | **377,656** | **9,825** | **13,672** | **309,792** | **301,717** | **70,765** | **62,245** | **32** | **22** |
| Kentucky | 22,987 | 21,045 | 451 | 438 | 22,536 | 20,607 | — | — | — | — |
| Tennessee | 831 | 1,060 | 831 | 1,060 | — | — | — | — | — | — |
| Alabama | 39,120 | 35,185 | 4,334 | 4,893 | 30,182 | 28,604 | 4,604 | 1,688 | — | — |
| Mississippi | 16,265 | 14,968 | — | — | 16,265 | 14,968 | — | — | — | — |
| **East South Central** | **79,203** | **72,258** | **5,616** | **6,391** | **68,983** | **64,179** | **4,604** | **1,688** | **—** | **—** |
| Arkansas | 17,319 | 12,939 | 99 | 252 | 9,387 | 8,814 | 7,833 | 3,873 | — | — |
| Louisiana | 41,393 | 42,446 | — | — | 41,350 | 42,442 | — | — | 43 | 4 |
| Oklahoma | 40,010 | 36,428 | — | — | 39,996 | 36,420 | — | — | 14 | 8 |
| Texas | 178,134 | 166,141 | 55 | 51 | 178,078 | 166,089 | — | — | 1 | 1 |
| **West South Central** | **276,856** | **257,954** | **154** | **303** | **268,811** | **253,765** | **7,833** | **3,873** | **58** | **13** |
| Montana | 10,476 | 10,569 | 4,945 | 5,157 | 5,531 | 5,412 | — | — | — | — |
| Idaho | 6,679 | 6,142 | 6,675 | 6,102 | 4 | 40 | — | — | — | — |
| Wyoming | 21,242 | 21,001 | — | — | 21,240 | 20,998 | — | — | 2 | 3 |
| Colorado | 13,035 | 14,802 | 10 | (53) | 12,354 | 14,629 | 667 | 213 | 4 | 13 |
| New Mexico | 24,098 | 19,806 | — | — | 24,040 | 19,779 | — | — | 58 | 27 |
| Arizona | 6,690 | 7,585 | 32 | 33 | 6,658 | 7,552 | — | — | — | — |
| Utah | 11,543 | 10,117 | 284 | 188 | 11,259 | 9,929 | — | — | — | — |
| Nevada | 11,812 | 13,058 | 61 | 47 | 11,751 | 13,010 | — | — | — | 1 |
| **Mountain** | **105,575** | **103,080** | **12,007** | **11,474** | **92,837** | **91,349** | **667** | **213** | **64** | **44** |
| Washington | 11,507 | 11,446 | 4,205 | 3,598 | 7,302 | 7,848 | — | — | — | — |
| Oregon | 13,423 | 12,155 | 7,218 | 6,875 | 810 | 785 | 5,395 | 4,495 | — | — |
| California | 102,628 | 115,550 | 19,581 | 17,185 | 82,538 | 95,315 | 494 | 3,034 | 15 | 16 |
| **Pacific** | **127,558** | **139,151** | **31,004** | **27,658** | **90,650** | **103,948** | **5,889** | **7,529** | **15** | **16** |
| Alaska | 86 | 90 | 47 | 53 | — | — | — | — | 39 | 37 |
| Hawaii | 6,510 | 6,423 | 20 | 20 | 6,227 | 6,168 | — | — | 263 | 235 |
| **Alaska & Hawaii** | **6,596** | **6,513** | **67** | **73** | **6,227** | **6,168** | **—** | **—** | **302** | **272** |

p Preliminary. ( ) Denotes negative figure. Source: Energy Information Administration.

# TABLE 17

# GENERATION — TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES

## BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR 1977–1980 — KILOWATT-HOURS IN MILLIONS

| | Total Electric Utility Industry | | | | | Investor-Owned Electric Utilities | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year — Month | Total | Hydro | Conventional Steam | Nuclear Steam | Internal Combustion | Total | Hydro | Conventional Steam | Nuclear Steam | Internal Combustion |
| **YEAR — 1980p** | | | | | | | | | | |
| January | 200,005 | 25,278 | 154,629 | 19,746 | 352 | 155,817 | 6,907 | 132,169 | 16,675 | 66 |
| February | 188,715 | 21,378 | 147,728 | 19,277 | 332 | 148,462 | 5,728 | 125,690 | 16,981 | 63 |
| March | 187,465 | 24,332 | 142,769 | 20,039 | 325 | 146,235 | 6,949 | 121,630 | 17,578 | 78 |
| April | 168,721 | 25,748 | 123,913 | 18,794 | 266 | 131,284 | 8,280 | 107,227 | 15,733 | 44 |
| May | 175,734 | 28,865 | 128,248 | 18,385 | 236 | 133,351 | 7,701 | 110,427 | 15,182 | 41 |
| June | 189,429 | 27,656 | 143,168 | 18,322 | 283 | 143,473 | 6,235 | 122,360 | 14,833 | 45 |
| July | 216,776 | 24,469 | 170,825 | 21,024 | 458 | 168,424 | 5,091 | 145,525 | 17,729 | 79 |
| August | 215,393 | 20,431 | 170,233 | 24,333 | 396 | 169,610 | 4,255 | 144,780 | 20,508 | 67 |
| September | 191,484 | 18,491 | 149,142 | 23,572 | 279 | 150,724 | 4,377 | 126,455 | 19,847 | 45 |
| October | 178,556 | 17,866 | 135,961 | 24,510 | 219 | 142,652 | 4,568 | 116,852 | 21,187 | 45 |
| November | 178,550 | 19,217 | 138,109 | 20,984 | 240 | 140,768 | 4,871 | 118,097 | 17,745 | 55 |
| December | 195,586 | 22,308 | 150,909 | 22,135 | 234 | 152,133 | 5,538 | 128,706 | 17,833 | 56 |
| Total | **2,286,414** | **276,039** | **1,755,634** | **251,121** | **3,620** | **1,782,933** | **70,500** | **1,499,918** | **211,831** | **684** |
| **YEAR — 1979** | | | | | | | | | | |
| January | 209,688 | 25,021 | 156,420 | 27,792 | 455 | 164,281 | 6,744 | 134,369 | 23,074 | 94 |
| February | 186,335 | 21,275 | 138,752 | 25,911 | 397 | 146,899 | 5,926 | 119,747 | 21,143 | 83 |
| March | 182,850 | 25,921 | 132,287 | 24,335 | 307 | 143,054 | 8,293 | 115,159 | 19,559 | 43 |
| April | 169,960 | 25,389 | 125,866 | 18,418 | 287 | 132,061 | 7,999 | 109,673 | 14,345 | 44 |
| May | 178,068 | 28,939 | 133,803 | 15,025 | 301 | 136,046 | 7,568 | 116,067 | 12,366 | 45 |
| June | 186,679 | 24,979 | 145,303 | 16,065 | 332 | 144,758 | 6,166 | 125,626 | 12,922 | 44 |
| July | 202,253 | 22,761 | 158,262 | 20,825 | 405 | 158,199 | 5,128 | 136,078 | 16,949 | 44 |
| August | 204,847 | 21,260 | 158,959 | 24,204 | 424 | 161,113 | 4,535 | 136,428 | 20,098 | 52 |
| September | 180,750 | 18,978 | 139,637 | 21,804 | 331 | 142,722 | 4,661 | 119,687 | 18,328 | 46 |
| October | 179,714 | 20,167 | 138,319 | 20,934 | 294 | 141,388 | 5,339 | 119,085 | 16,922 | 42 |
| November | 177,505 | 22,367 | 135,568 | 19,255 | 315 | 138,320 | 5,816 | 116,320 | 16,137 | 47 |
| December | 188,710 | 22,733 | 145,080 | 20,587 | 310 | 147,329 | 5,930 | 124,413 | 16,945 | 41 |
| Total | **2,247,359** | **279,790** | **1,708,256** | **255,155** | **4,158** | **1,756,170** | **74,105** | **1,472,652** | **208,788** | **625** |
| **YEAR — 1978** | | | | | | | | | | |
| January | 197,830 | 25,066 | 146,485 | 25,833 | 446 | 154,622 | 7,666 | 125,522 | 21,331 | 103 |
| February | 173,499 | 22,211 | 129,023 | 21,833 | 432 | 136,151 | 6,389 | 111,757 | 17,918 | 87 |
| March | 173,188 | 24,630 | 125,709 | 22,449 | 400 | 134,660 | 6,985 | 109,539 | 18,056 | 80 |
| April | 159,739 | 25,306 | 116,510 | 17,580 | 343 | 122,353 | 7,088 | 101,103 | 14,087 | 75 |
| May | 175,236 | 28,757 | 125,750 | 20,416 | 313 | 133,083 | 7,981 | 108,467 | 16,593 | 42 |
| June | 188,312 | 25,121 | 140,613 | 22,185 | 393 | 146,551 | 6,464 | 120,592 | 19,440 | 55 |
| July | 202,677 | 24,453 | 152,727 | 25,007 | 490 | 156,752 | 5,166 | 129,945 | 21,576 | 65 |
| August | 206,413 | 22,185 | 158,159 | 25,599 | 470 | 162,473 | 5,260 | 135,612 | 21,536 | 65 |
| September | 185,572 | 21,177 | 141,791 | 22,189 | 415 | 145,218 | 4,831 | 121,673 | 18,658 | 56 |
| October | 175,802 | 19,479 | 132,997 | 22,997 | 329 | 138,717 | 4,522 | 114,614 | 19,535 | 46 |
| November | 176,173 | 19,953 | 130,984 | 24,901 | 335 | 138,978 | 4,651 | 112,456 | 21,821 | 50 |
| December | 191,872 | 22,094 | 144,008 | 25,414 | 356 | 151,605 | 5,378 | 123,986 | 22,191 | 50 |
| Total | **2,206,313** | **280,432** | **1,644,756** | **276,403** | **4,722** | **1,721,163** | **72,381** | **1,415,266** | **232,742** | **774** |
| **YEAR — 1977** | | | | | | | | | | |
| January | 196,371 | 20,700 | 152,995 | 22,152 | 524 | 154,777 | 4,676 | 132,430 | 17,543 | 128 |
| February | 162,732 | 15,150 | 127,626 | 19,601 | 355 | 128,688 | 3,228 | 110,396 | 15,012 | 52 |
| March | 169,156 | 19,801 | 128,342 | 20,672 | 341 | 132,356 | 5,537 | 111,010 | 15,745 | 64 |
| April | 156,854 | 18,642 | 118,018 | 19,867 | 327 | 124,489 | 5,565 | 103,217 | 15,647 | 60 |
| May | 169,326 | 18,677 | 129,688 | 20,599 | 362 | 132,653 | 4,281 | 112,568 | 15,745 | 59 |
| June | 180,786 | 17,226 | 141,606 | 21,517 | 437 | 142,741 | 3,786 | 122,011 | 16,885 | 59 |
| July | 198,922 | 16,799 | 159,708 | 21,825 | 590 | 158,580 | 3,352 | 137,036 | 18,081 | 111 |
| August | 196,092 | 16,682 | 156,197 | 22,750 | 463 | 156,735 | 3,417 | 134,149 | 19,107 | 62 |
| September | 176,262 | 16,424 | 139,826 | 19,630 | 382 | 141,198 | 3,865 | 120,283 | 17,003 | 47 |
| October | 166,386 | 17,189 | 129,847 | 19,041 | 309 | 133,880 | 4,960 | 111,913 | 16,966 | 41 |
| November | 167,073 | 20,397 | 126,897 | 19,458 | 321 | 132,543 | 6,018 | 109,484 | 16,988 | 53 |
| December | 184,206 | 22,759 | 137,355 | 23,770 | 322 | 145,444 | 6,658 | 118,187 | 20,535 | 64 |
| Total | **2,124,166** | **220,446** | **1,648,105** | **250,882** | **4,733** | **1,684,084** | **55,343** | **1,422,684** | **205,257** | **800** |

p Preliminary. Source: Energy Information Administration.

# TABLE 18
# INDEX OF WEEKLY ELECTRIC OUTPUT — TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
## SEASONALLY ADJUSTED — 1967 AVERAGE = 100
## 1970–1980

| Week Number | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | 1970 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 ........ | 179r | 199 | 184 | 181 | 162 | 154 | 154 | 154 | 131 | 129 | 120 |
| 2 ........ | 178 | 192 | 184 | 182 | 174 | 152 | 151 | 160 | 136 | 130 | 128 |
| 3 ........ | 170 | 189 | 184 | 191 | 171 | 162 | 149 | 149 | 136 | 129 | 124 |
| 4 ........ | 176 | 186 | 182 | 193 | 175 | 158 | 145 | 148 | 139 | 133 | 127 |
| 5 ........ | 194 | 201 | 193 | 187 | 169 | 155 | 146 | 153 | 138 | 131 | 120 |
| 6 ........ | 190 | 198 | 185 | 183 | 170 | 158 | 153 | 150 | 143 | 134 | 123 |
| 7 ........ | 188 | 196 | 180 | 176 | 163 | 159 | 151 | 156 | 143 | 134 | 122 |
| 8 ........ | 185 | 194 | 183 | 177 | 158 | 154 | 150 | 153 | 139 | 128 | 122 |
| 9 ........ | 200 | 196 | 187 | 174 | 162 | 156 | 155 | 150 | 141 | 129 | 123 |
| 10 ........ | 204 | 191 | 186 | 177 | 164 | 164 | 148 | 147 | 139 | 132 | 123 |
| 11 ........ | 196 | 194 | 176 | 170 | 167 | 162 | 151 | 147 | 142 | 133 | 123 |
| 12 ........ | 195 | 189 | 170 | 171 | 170 | 157 | 154 | 152 | 140 | 132 | 126 |
| 13 ........ | 196 | 193 | 170 | 176 | 164 | 156 | 157 | 150 | 141 | 136 | 124 |
| 14 ........ | 191r | 194 | 173 | 171 | 165 | 159 | 154 | 152 | 142 | 133 | 125 |
| 15 ........ | 188 | 193 | 174 | 172 | 163 | 159 | 152 | 155 | 145 | 131 | 125 |
| 16 ........ | 195 | 191 | 180 | 174 | 164 | 157 | 151 | 149 | 145 | 128 | 125 |
| 17 ........ | 188 | 188 | 177 | 170 | 166 | 155 | 154 | 151 | 143 | 132 | 126 |
| 18 ........ | 187 | 186 | 177 | 175 | 167 | 157 | 156 | 152 | 142 | 134 | 128 |
| 19 ........ | 187 | 196 | 180 | 174 | 165 | 156 | 156 | 155 | 142 | 132 | 123 |
| 20 ........ | 185 | 188 | 181 | 183 | 165 | 153 | 161 | 152 | 143 | 130 | 128 |
| 21 ........ | 182 | 181 | 182 | 179 | 159 | 161 | 160 | 153 | 144 | 130 | 126 |
| 22 ........ | 185 | 181 | 187 | 179 | 154 | 158 | 158 | 154 | 143 | 134 | 127 |
| 23 ........ | 193 | 191 | 183 | 177 | 162 | 154 | 158 | 162 | 149 | 135 | 122 |
| 24 ........ | 180r | 183 | 178 | 176 | 164 | 148 | 154 | 161 | 142 | 127 | 124 |
| 25 ........ | 179 | 184 | 179 | 174 | 169 | 159 | 157 | 157 | 140 | 136 | 129 |
| 26 ...... | 192 | 177 | 188 | 177 | 164 | 159 | 146 | 154 | 140 | 138 | 123 |
| 27 ........ | 192 | 173 | 175 | 181 | 153 | 158 | 158 | 161 | 134 | 139 | 134 |
| 28 ........ | 197 | 182 | 179 | 184 | 171 | 151 | 161 | 161 | 145 | 136 | 123 |
| 29 ........ | 202r | 184 | 18[illegible] | 187 | 165 | 148 | 163 | 154 | 152 | 135 | 128 |
| 30 ........ | 194 | 189 | 183 | 170 | 166 | 159 | 158 | 158 | 150 | 132 | 121 |
| 31 ........ | 194 | 193 | 178 | 175 | 171 | 162 | 159 | 155 | 144 | 129 | 134 |
| 32 ........ | 204 | 198 | 183 | 182 | 160 | 157 | 150 | 161 | 141 | 125 | 129 |
| 33 ........ | 201 | 173 | 193 | 167 | 162 | 159 | 155 | 156 | 146 | 134 | 131 |
| 34 ........ | 196r | 184 | 185 | 163 | 158 | 156 | 159 | 149 | 148 | 131 | 131 |
| 35 ........ | 194r | 185 | 180 | 173 | 170 | 159 | 158 | 167 | 145 | 133 | 129 |
| 36 ........ | 201 | 192 | 185 | 172 | 162 | 158 | 147 | 162 | 139 | 139 | 136 |
| 37 ........ | 200r | 188 | 193 | 173 | 167 | 156 | 158 | 155 | 149 | 141 | 129 |
| 38 ........ | 198 | 181 | 197 | 177 | 168 | 152 | 156 | 151 | 153 | 140 | 132 |
| 39 ........ | 203r | 186 | 183 | 180 | 166 | 151 | 150 | 158 | 149 | 130 | 136 |
| 40 ........ | 192r | 191 | 186 | 175 | 168 | 152 | 154 | 159 | 145 | 141 | 123 |
| 41 ........ | 186 | 190 | 184 | 176 | 171 | 158 | 155 | 163 | 148 | 138 | 127 |
| 42 ........ | 188 | 192 | 185 | 176 | 169 | 160 | 157 | 158 | 152 | 134 | 126 |
| 43 ........ | 189 | 193 | 185 | 173 | 176 | 158 | 158 | 157 | 148 | 135 | 125 |
| 44 ........ | 194 | 191 | 185 | 173 | 176 | 159 | 154 | 158 | 150 | 133 | 125 |
| 45 ........ | 187 | 190 | 182 | 174 | 177 | 156 | 155 | 161 | 148 | 134 | 126 |
| 46 ........ | 188 | 191 | 186 | 177 | 179 | 161 | 156 | 154 | 152 | 136 | 124 |
| 47 ........ | 201r | 177 | 194 | 170 | 178 | 161 | 155 | 149 | 152 | 131 | 126 |
| 48 ........ | 190r | 194 | 181 | 186 | 176 | 166 | 157 | 148 | 151 | 137 | 131 |
| 49 ........ | 184 | 188 | 187 | 185 | 186 | 163 | 159 | 152 | 156 | 138 | 124 |
| 50 ........ | 185r | 181 | 192 | 177 | 182 | 164 | 156 | 155 | 158 | 135 | 127 |
| 51 ........ | 192r | 189 | 184 | 172 | 177 | 169 | 156 | 157 | 152 | 135 | 128 |
| 52 ........ | 199r | 174 | 184 | 181 | 187 | 171 | 149 | 145 | 146 | 140 | 130 |
| **Year ........** | **191** | **189** | **183** | **177** | **168** | **157** | **154** | **155** | **145** | **133** | **126** |

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1972 and 1977, since those years had 53 Saturdays.

The above values are based on EEI Weekly Electric Output Index — (Revised Methodology) dated January 1958.

r Revised.

# TABLE 19
# WEEKLY ELECTRIC OUTPUT — TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
## 1978–1980 — KILOWATT-HOURS IN MILLIONS

| | Week Ended | 1980 | | Week Ended | 1979 | % Change 80/79 | | Week Ended | 1978 | % Change 79/78 |
|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 5 | 42,577 | Jan. | 6 | 46,236 | − 7.9 | Jan. | 7 | 42,144 | + 9.7 |
| | 12 | 46,196 | | 13 | 48,582 | − 4.9 | | 14 | 45,617 | + 6.5 |
| | 19 | 43,653 | | 20 | 47,294 | − 7.7 | | 21 | 45,214 | + 4.6 |
| | 26 | 45,021 | | 27 | 46,741 | − 3.7 | | 28 | 44,743 | + 4.5 |
| Feb. | 2 | 47,975 | Feb. | 3 | 48,482 | − 1.0 | Feb. | 4 | 45,649 | + 6.2 |
| | 9 | 47,540 | | 10 | 48,460 | − 1.9 | | 11 | 44,407 | + 9.1 |
| | 16 | 46,274 | | 17 | 47,149 | − 1.9 | | 18 | 42,717 | + 10.4 |
| | 23 | 44,076 | | 24 | 45,270 | − 2.6 | | 25 | 42,294 | + 7.0 |
| Mar. | 1 | 44,588 | Mar. | 3 | 43,475 | + 2.6 | Mar. | 4 | 41,646 | + 4.4 |
| | 8 | 44,911 | | 10 | 41,930 | + 7.1 | | 11 | 40,950 | + 2.4 |
| | 15 | 43,076 | | 17 | 42,490 | + 1.4 | | 18 | 38,920 | + 9.2 |
| | 22 | 42,125 | | 24 | 40,576 | + 3.8 | | 25 | 36,973 | + 9.7 |
| | 29 | 41,877 | | 31 | 41,260 | + 1.5 | | | | |
| | | | | | | | Apr. | 1 | 37,070 | + 11.3 |
| Apr. | 5 | 40,327 | Apr. | 7 | 40,991 | − 1.6 | | 8 | 37,465 | + 9.4 |
| | 12 | 39,519 | | 14 | 40,488 | − 2.4 | | 15 | 37,266 | + 8.6 |
| | 19 | 40,617 | | 21 | 39,816 | + 2.0 | | 22 | 38,196 | + 4.2 |
| | 26 | 39,566 | | 28 | 39,645 | − 0.2 | | 29 | 37,753 | + 5.0 |
| May | 3 | 39,475 | May | 5 | 39,522 | − 0.1 | May | 6 | 37,792 | + 4.6 |
| | 10 | 39,725 | | 12 | 41,605 | − 4.5 | | 13 | 38,609 | + 7.8 |
| | 17 | 40,025 | | 19 | 40,768 | − 1.8 | | 20 | 39,500 | + 3.2 |
| | 24 | 40,596 | | 26 | 40,818 | − 0.5 | | 27 | 40,944 | − 0.3 |
| | 31 | 40,863 | | | | | | | | |
| | | | June | 2 | 40,451 | + 1.0 | June | 3 | 41,488 | − 2.5 |
| June | 7 | 44,282 | | 9 | 44,056 | + 0.5 | | 10 | 42,021 | + 4.8 |
| | 14 | 42,625 | | 16 | 43,950 | − 3.0 | | 17 | 42,783 | + 2.7 |
| | 21 | 43,621 | | 23 | 45,356 | − 3.8 | | 24 | 44,493 | + 1.9 |
| | 28 | 46,894 | | 30 | 44,256 | + 6.0 | | | | |
| | | | | | | | July | 1 | 47,138 | − 6.1 |
| July | 5 | 45,838 | July | 7 | 42,332 | + 8.3 | | 8 | 43,094 | − 1.8 |
| | 12 | 49,165 | | 14 | 46,206 | + 6.4 | | 15 | 45,821 | + 0.8 |
| | 19 | 52,635 | | 21 | 47,691 | + 10.4 | | 22 | 48,212 | − 1.1 |
| | 26 | 49,943 | | 28 | 48,066 | + 3.9 | | 29 | 46,845 | + 2.6 |
| Aug. | 2 | 50,126 | Aug. | 4 | 49,200 | + 1.9 | Aug. | 5 | 45,218 | + 8.8 |
| | 9 | 51,834 | | 11 | 49,516 | + 4.7 | | 12 | 45,796 | + 8.1 |
| | 16 | 49,507 | | 18 | 43,316 | + 14.3 | | 19 | 48,305 | − 10.3 |
| | 23 | 47,981 | | 25 | 45,679 | + 5.0 | | 26 | 46,345 | − 1.4 |
| | 30 | 48,138 | | | | | | | | |
| | | | Sept. | 1 | 46,407 | + 3.7 | Sept. | 2 | 45,327 | + 2.4 |
| Sept. | 6 | 46,844 | | 8 | 44,980 | + 4.1 | | 9 | 43,553 | + 3.3 |
| | 13 | 45,549 | | 15 | 43,370 | + 5.0 | | 16 | 44,585 | − 2.7 |
| | 20 | 44,434 | | 22 | 41,239 | + 7.7 | | 23 | 44,673 | − 7.7 |
| | 27 | 44,351 | | 29 | 41,172 | + 7.7 | | 30 | 40,936 | + 0.6 |
| Oct. | 4 | 40,992 | Oct. | 6 | 41,357 | − 0.9 | Oct. | 7 | 40,449 | + 2.2 |
| | 11 | 40,409 | | 13 | 40,940 | − 1.3 | | 14 | 40,042 | + 2.2 |
| | 18 | 40,743 | | 20 | 41,213 | − 1.1 | | 21 | 40,108 | + 2.8 |
| | 25 | 41,002 | | 27 | 41,494 | − 1.2 | | 28 | 40,049 | + 3.6 |
| Nov. | 1 | 42,355 | Nov. | 3 | 41,325 | + 2.5 | Nov. | 4 | 40,395 | + 2.3 |
| | 8 | 41,300 | | 10 | 41,910 | − 1.5 | | 11 | 40,259 | + 4.1 |
| | 15 | 42,365 | | 17 | 42,982 | − 1.4 | | 18 | 41,803 | + 2.8 |
| | 22 | 44,705 | | 24 | 39,605 | + 12.9 | | 25 | 40,718 | − 2.7 |
| | 29 | 42,727 | | | | | | | | |
| | | | Dec. | 1 | 43,360 | − 1.5 | Dec. | 2 | 43,052 | + 0.7 |
| Dec. | 6 | 43,898 | | 8 | 44,843 | − 2.1 | | 9 | 44,086 | + 1.7 |
| | 13 | 44,824 | | 15 | 43,970 | + 1.9 | | 16 | 46,238 | − 4.9 |
| | 20 | 46,555 | | 22 | 45,670 | + 1.9 | | 23 | 44,447 | + 2.8 |
| | 27 | 44,711 | | 29 | 39,326 | + 13.7 | | 30 | 41,463 | − 5.2 |

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 94 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

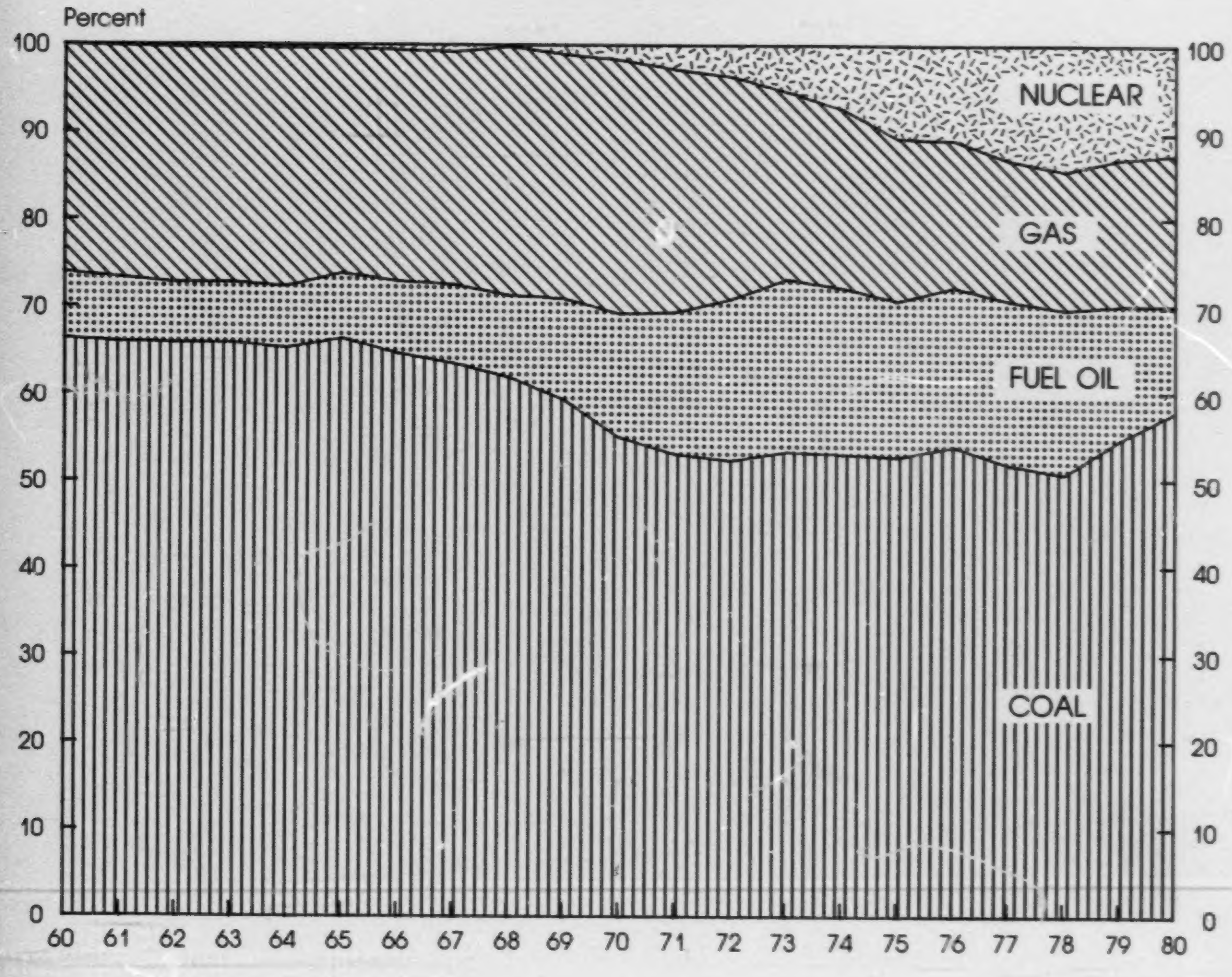
# FUEL

## SECTION IV

Chart IV-A

**ELECTRIC POWER GENERATION**

TOTAL ELECTRIC UTILITY INDUSTRY
BY FUEL SOURCE*



*Excludes geothermal, wood and waste.
Based on Table 21, page 30.
Source: Energy Information Administration

# TABLE 21
# GENERATION BY FUEL—TOTAL ELECTRIC UTILITY INDUSTRY*
## BY YEARS AND KINDS OF FUEL
## KILOWATT-HOURS IN MILLIONS

| Year | Total Thermal Generation** | Coal | Percent of Total | Fuel Oil | Percent of Total | Gas | Percent of Total | Nuclear | Percent of Total |
|---|---|---|---|---|---|---|---|---|---|
| **1980p** | **2,004,870** | **1,161,969** | **58.0** | **245,547** | **12.2** | **346,233** | **17.3** | **251,121** | **12.5** |
| 1979 | 1,963,184 | 1,075,595 | 54.8 | 302,948 | 15.4 | 329,486 | 16.8 | 255,155 | 13.0 |
| 1978 | 1,922,566 | 976,618 | 50.8 | 364,153 | 18.9 | 305,392 | 15.9 | 276,403 | 14.4 |
| 1977 | 1,899,657 | 985,465 | 51.9 | 357,866 | 18.8 | 305,444 | 16.1 | 250,882 | 13.2 |
| 1976 | 1,750,058 | 944,562 | 54.0 | 319,779 | 18.3 | 294,610 | 16.8 | 191,107 | 10.9 |
| 1975 | 1,614,117 | 852,972 | 52.8 | 288,873 | 17.9 | 299,766 | 18.6 | 172,506 | 10.7 |
| 1974 | 1,562,806 | 829,842 | 53.1 | 299,306 | 19.1 | 319,931 | 20.5 | 113,727 | 7.3 |
| 1973 | 1,582,292 | 845,704 | 53.4 | 312,805 | 19.8 | 340,449 | 21.5 | 83,334 | 5.3 |
| 1972 | 1,475,228 | 772,871 | 52.4 | 272,530 | 18.5 | 375,735 | 25.5 | 54,092 | 3.6 |
| 1971 | 1,345,416 | 714,676 | 53.1 | 218,608 | 16.3 | 374,026 | 27.8 | 38,106 | 2.8 |
| 1970 | 1,283,271 | 706,102 | 55.0 | 182,488 | 14.2 | 372,884 | 29.1 | 21,797 | 1.7 |
| 1969 | 1,191,055 | 706,001 | 59.3 | 137,847 | 11.6 | 333,279 | 28.0 | 13,928 | 1.1 |
| 1968 | 1,106,142 | 684,905 | 61.9 | 104,276 | 9.4 | 304,433 | 27.5 | 12,528 | 1.2 |
| 1967 | 992,215 | 630,483 | 63.5 | 89,271 | 9.0 | 264,806 | 26.7 | 7,655 | 0.8 |
| 1966 | 949,072 | 613,475 | 64.6 | 78,926 | 8.3 | 251,151 | 26.5 | 5,520 | 0.6 |
| 1965 | 860,943 | 570,926 | 66.3 | 64,801 | 7.5 | 221,559 | 25.8 | 3,657 | 0.4 |
| 1964 | 806,565 | 526,230 | 65.2 | 56,954 | 7.1 | 220,038 | 27.3 | 3,343 | 0.4 |
| 1963 | 750,742 | 493,927 | 65.8 | 52,001 | 6.9 | 201,602 | 26.9 | 3,212 | 0.4 |
| 1962 | 683,803 | 450,249 | 65.8 | 46,983 | 6.9 | 184,301 | 27.0 | 2,270 | 0.3 |
| 1961 | 639,969 | 421,871 | 65.9 | 47,120 | 7.4 | 169,286 | 26.5 | 1,692 | 0.2 |
| 1960 | 607,660 | 403,067 | 66.3 | 46,105 | 7.6 | 157,970 | 26.0 | 518 | 0.1 |

*Alaska and Hawaii included since 1963.
**Excludes generation by geothermal, wood and waste.
p Preliminary.
Source: Energy Information Administration.

# TABLE 22
# GENERATION BY FUEL—TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND KINDS OF FUEL
## 1979 and 1980p—KILOWATT-HOURS IN MILLIONS

| | Total Thermal* | | Coal | | Fuel Oil | | Gas | | Nuclear Fuel | |
|---|---|---|---|---|---|---|---|---|---|---|
| Division/State | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 | 1980p | 1979 |
| **Total United States** | **2,004,870** | **1,963,184** | **1,161,969** | **1,075,595** | **245,547** | **302,948** | **346,233** | **329,486** | **251,121** | **255,155** |
| Maine | 6,458 | 5,691 | – | – | 2,054 | 1,194 | – | – | 4,404 | 4,497 |
| New Hampshire | 5,100 | 5,097 | 2,733 | 2,740 | 2,367 | 2,355 | – | 2 | – | – |
| Vermont | 3,026 | 3,513 | 13 | 18 | 22 | 15 | 12 | 31 | 2,979 | 3,449 |
| Massachusetts | 34,748 | 35,392 | 1,792 | 122 | 29,297 | 28,634 | 427 | 559 | 3,232 | 6,077 |
| Rhode Island | 962 | 591 | – | – | 825 | 448 | 137 | 143 | – | – |
| Connecticut | 24,448 | 23,419 | – | 9 | 12,613 | 10,704 | – | – | 11,835 | 12,706 |
| **New England** | **74,742** | **73,703** | **4,538** | **2,889** | **47,178** | **43,350** | **576** | **735** | **22,450** | **26,729** |
| New York | 82,347 | 79,009 | 14,471 | 13,961 | 37,834 | 40,068 | 10,765 | 6,472 | 19,277 | 18,508 |
| New Jersey | 29,712 | 26,839 | 6,425 | 5,609 | 8,758 | 11,824 | 6,902 | 2,796 | 7,627 | 6,610 |
| Pennsylvania | 121,776 | 126,539 | 98,756 | 95,555 | 10,727 | 12,066 | 200 | 122 | 12,093 | 18,796 |
| **Middle Atlantic** | **233,835** | **232,387** | **119,652** | **115,125** | **57,319** | **63,958** | **17,867** | **9,390** | **38,997** | **43,914** |
| Ohio | 110,236 | 116,790 | 106,800 | 111,364 | 1,036 | 1,912 | 281 | 351 | 2,119 | 3,163 |
| Indiana | 70,143 | 66,596 | 69,635 | 65,687 | 348 | 664 | 160 | 245 | – | – |
| Illinois | 103,294 | 104,537 | 66,910 | 66,449 | 7,237 | 7,993 | 1,406 | 2,632 | 27,741 | 27,463 |
| Michigan | 73,764 | 77,032 | 50,449 | 51,362 | 5,602 | 8,341 | 1,822 | 2,190 | 15,891 | 15,139 |
| Wisconsin | 35,919 | 35,990 | 24,943 | 23,698 | 248 | 561 | 816 | 1,328 | 9,912 | 10,403 |
| **East North Central** | **393,356** | **400,945** | **318,737** | **318,560** | **14,471** | **19,471** | **4,485** | **6,746** | **55,663** | **56,168** |
| Minnesota | 30,893 | 30,201 | 20,066 | 17,641 | 208 | 541 | 592 | 515 | 10,027 | 11,504 |
| Iowa | 20,825 | 19,376 | 17,755 | 15,578 | 69 | 340 | 438 | 569 | 2,563 | 2,889 |
| Missouri | 48,369 | 46,024 | 46,964 | 43,909 | 244 | 579 | 1,161 | 1,536 | – | – |
| North Dakota | 13,315 | 11,142 | 13,286 | 11,039 | 29 | 103 | – | – | – | – |
| South Dakota | 2,845 | 2,874 | 2,808 | 2,814 | 24 | 53 | 13 | 7 | – | – |
| Nebraska | 14,973 | 16,168 | 8,122 | 6,028 | 124 | 392 | 944 | 1,089 | 5,783 | 8,659 |
| Kansas | 25,122 | 23,613 | 16,210 | 12,566 | 438 | 1,349 | 8,474 | 9,698 | – | – |
| **West North Central** | **156,342** | **149,398** | **125,211** | **109,575** | **1,136** | **3,357** | **11,622** | **13,414** | **18,373** | **23,052** |
| Delaware | 6,662 | 6,980 | 2,408 | 2,352 | 3,576 | 4,147 | 678 | 481 | – | – |
| Maryland | 30,904 | 31,865 | 14,589 | 13,460 | 5,024 | 8,103 | 344 | 628 | 10,947 | 9,674 |
| District of Columbia | 699 | 1,036 | – | – | 699 | 1,036 | – | – | – | – |
| Virginia | 33,440 | 33,476 | 13,384 | 12,354 | 8,419 | 13,815 | 171 | 251 | 11,466 | 7,056 |
| West Virginia | 70,372 | 67,246 | 69,956 | 66,811 | 408 | 427 | 8 | 8 | – | – |
| North Carolina | 66,584 | 60,244 | 60,463 | 53,231 | 249 | 169 | 97 | 35 | 5,775 | 6,809 |
| South Carolina | 38,882 | 37,712 | 19,521 | 16,727 | 1,550 | 2,337 | 407 | 428 | 17,404 | 18,220 |
| Georgia | 58,943 | 51,819 | 49,674 | 45,079 | 546 | 1,401 | 287 | 244 | 8,436 | 5,095 |
| Florida | 95,686 | 93,753 | 19,737 | 18,227 | 44,352 | 45,061 | 14,860 | 15,074 | 16,737 | 15,391 |
| **South Atlantic** | **402,172** | **384,131** | **249,732** | **228,241** | **64,823** | **76,496** | **16,852** | **17,149** | **70,765** | **62,245** |
| Kentucky | 54,165 | 50,824 | 53,883 | 50,671 | 124 | 84 | 158 | 69 | – | – |
| Tennessee | 51,449 | 46,404 | 50,618 | 46,092 | 198 | 312 | 114 | – | 519 | – |
| Alabama | 68,911 | 64,847 | 45,242 | 41,995 | 63 | 59 | 108 | 703 | 23,498 | 22,090 |
| Mississippi | 18,500 | 16,639 | 6,958 | 5,270 | 3,346 | 6,278 | 8,196 | 5,091 | – | – |
| **East South Central** | **193,025** | **178,714** | **156,701** | **144,028** | **3,731** | **6,733** | **8,576** | **5,863** | **24,017** | **22,090** |
| Arkansas | 17,992 | 13,415 | 2,941 | 2,402 | 1,969 | 4,532 | 5,249 | 2,608 | 7,833 | 3,873 |
| Louisiana | 45,739 | 46,655 | – | – | 4,787 | 8,259 | 40,952 | 38,396 | – | – |
| Oklahoma | 43,319 | 39,290 | 9,711 | 4,716 | 28 | 58 | 33,580 | 34,516 | – | – |
| Texas | 201,931 | 186,268 | 62,053 | 46,363 | 949 | 2,638 | 138,929 | 137,267 | – | – |
| **West South Central** | **308,981** | **285,628** | **74,705** | **53,481** | **7,733** | **15,487** | **218,710** | **212,787** | **7,833** | **3,873** |
| Montana | 5,514 | 5,360 | 5,140 | 5,114 | 22 | 59 | 352 | 187 | – | – |
| Idaho | 4 | 40 | – | – | – | – | 4 | 40 | – | – |
| Wyoming | 21,245 | 21,003 | 21,150 | 20,861 | 62 | 77 | 33 | 65 | – | – |
| Colorado | 21,921 | 20,908 | 18,594 | 17,517 | 158 | 360 | 2,502 | 2,818 | 667 | 213 |
| New Mexico | 24,581 | 20,433 | 19,331 | 14,638 | 189 | 397 | 5,061 | 5,398 | – | – |
| Arizona | 27,055 | 27,660 | 21,702 | 20,089 | 867 | 2,874 | 4,486 | 4,697 | – | – |
| Utah | 11,291 | 9,988 | 10,870 | 9,408 | 63 | 122 | 358 | 458 | – | – |
| Nevada | 11,751 | 13,012 | 7,755 | 8,310 | 1,473 | 874 | 2,523 | 3,828 | – | – |
| **Mountain** | **123,362** | **118,404** | **104,542** | **95,937** | **2,834** | **4,763** | **15,319** | **17,491** | **667** | **213** |
| Washington | 9,343 | 11,461 | 7,129 | 7,446 | 98 | 243 | 75 | 159 | 2,041 | 3,613 |
| Oregon | 6,205 | 5,280 | 725 | – | 57 | 594 | 28 | 191 | 5,395 | 4,495 |
| California | 94,469 | 114,163 | – | – | 39,276 | 61,682 | 50,273 | 43,718 | 4,920 | 8,763 |
| **Pacific** | **110,017** | **130,904** | **7,854** | **7,446** | **39,431** | **62,519** | **50,376** | **44,068** | **12,356** | **16,871** |
| Alaska | 2,548 | 2,567 | 297 | 313 | 401 | 411 | 1,850 | 1,843 | – | – |
| Hawaii | 6,490 | 6,403 | – | – | 6,490 | 6,403 | – | – | – | – |
| **Alaska & Hawaii** | **9,038** | **8,970** | **297** | **313** | **6,891** | **6,814** | **1,850** | **1,843** | **–** | **–** |

*Excludes generation by geothermal, wood and waste.
p Preliminary. Source: Energy Information Administration.

# TABLE 23
# CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
## TOTAL ELECTRIC UTILITY INDUSTRY*
## BY YEARS AND KINDS OF FUEL

| Year | Coal (Thousand Short Tons) | Fuel Oil (Thousand 42-Gallon Barrels) | Gas (Million Cubic Feet) | Total Fossil Fuel in Coal Equivalent**† (Thousand Short Tons) | Net Generation by Fuels** (Kwhr in Millions) | Heat Rate† (Btu per Kwhr) | Lbs. of Coal per Kwhr† |
|---|---|---|---|---|---|---|---|
| **1980p** | **569,453** | **420,214** | **3,681,595** | **916,952‡** | **1,753,749** | **10,489** | **0.980** |
| 1979 | 527,317 | 523,256 | 3,490,517 | 837,371r | 1,708,029 | 10,470 | 0.981 |
| 1978 | 481,624 | 635,829 | 3,188,370 | 811,814 | 1,646,163 | 10,495 | 0.986 |
| 1977 | 477,215 | 623,656 | 3,190,571 | 798,425 | 1,648,775 | 10,449 | 0.969 |
| 1976 | 448,431 | 555,583 | 3,080,627 | 740,112 | 1,558,951 | 10,369 | 0.950 |
| 1975 | 406,032 | 506,081 | 3,157,591 | 686,236 | 1,441,611 | 10,383 | 0.952 |
| 1974 | 392,344 | 536,140 | 3,429,072 | 685,115 | 1,449,079 | 10,481 | 0.946 |
| 1973 | 388,190 | 559,842 | 3,640,756 | 688,043 | 1,498,958 | 10,429 | 0.918 |
| 1972 | 352,391 | 493,663 | 3,976,762 | 647,968 | 1,421,136 | 10,479 | 0.912 |
| 1971 | 327,878 | 396,438 | 3,975,972 | 599,766 | 1,307,310 | 10,536 | 0.918 |
| 1970 | 320,818 | 335,504 | 3,931,996 | 573,152 | 1,261,474 | 10,508 | 0.909 |
| 1969 | 310,641 | 251,027 | 3,487,642 | 517,937 | 1,177,127 | 10,457 | 0.880 |
| 1968 | 297,779 | 188,642 | 3,147,909 | 475,475 | 1,093,614 | 10,371 | 0.870 |
| 1967 | 274,185 | 161,278 | 2,746,352 | 428,165 | 984,560 | 10,396 | 0.870 |
| 1966 | 266,477 | 140,949 | 2,609,949 | 409,854 | 943,552 | 10,399 | 0.869 |
| 1965 | 244,788 | 115,203 | 2,321,101 | 367,567 | 857,286 | 10,384 | 0.858 |
| 1964 | 225,425 | 101,141 | 2,322,896 | 344,083 | 803,222 | 10,407 | 0.857 |
| 1963 | 211,332 | 93,314 | 2,144,473 | 319,840 | 747,530 | 10,438 | 0.856 |
| 1962 | 193,238 | 85,768 | 1,965,974 | 292,501 | 681,533 | 10,493 | 0.858 |
| 1961 | 182,121 | 85,736 | 1,825,117 | 275,544 | 638,277 | 10,552 | 0.863 |
| 1960 | 176,634 | 85,340 | 1,724,762 | 266,064 | 607,142 | 10,701 | 0.876 |

*Alaska and Hawaii included since 1963.

**Excludes geothermal, wood, waste, and nuclear fuels.

†EEI estimate.

‡Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.

pPreliminary. r Revised. Source: Energy Information Administration.

# TABLE 24
# CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
## TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND KINDS OF FUEL
## YEAR 1980p

| Division/State | Coal (Thousand Short Tons) | Fuel Oil (Thousand 42-Gallon Barrels) | Gas (Million Cubic Feet) | Total Fossil Fuel in Coal Equivalent*† (Thousand Short Tons) | Net Generation by Fuels* (Kwhr in Millions) | Heat Rate† (Btu per Kwhr) | Lbs. of Coal per Kwhr† |
|---|---|---|---|---|---|---|---|
| **Total United States** | **569,453** | **420,214** | **3,681,595** | **916,952‡** | **1,753,749** | **10,489** | **0.980** |
| Maine | – | 3,680 | – | 885 | 2,054 | 11,178 | – |
| New Hampshire | 1,080 | 4,366 | – | 2,199 | 5,100 | 10,943 | 0.790 |
| Vermont | 9 | 63 | 239 | 67 | 47 | 17,381 | 1.385 |
| Massachusetts | 676 | 46,342 | 5,083 | 11,896 | 31,516 | 9,973 | 0.754 |
| Rhode Island | – | 1,662 | 1,679 | 466 | 962 | 12,621 | – |
| Connecticut | – | 21,596 | – | 5,135 | 12,613 | 10,553 | – |
| **New England** | **1,765** | **77,709** | **7,001** | **20,648** | **52,292** | **10,317** | **0.778** |
| New York | 6,446 | 64,647 | 124,391 | 28,244 | 63,070 | 10,912 | 0.891 |
| New Jersey | 2,545 | 15,740 | 79,514 | 9,503 | 22,085 | 11,030 | 0.792 |
| Pennsylvania | 42,529 | 19,465 | 2,865 | 47,616 | 109,683 | 10,402 | 0.861 |
| **Middle Atlantic** | **51,520** | **99,852** | **206,770** | **85,363** | **194,838** | **10,639** | **0.861** |
| Ohio | 48,538 | 2,248 | 4,706 | 49,343 | 108,117 | 10,332 | 0.909 |
| Indiana | 33,664 | 730 | 1,904 | 33,951 | 70,143 | 10,352 | 0.967 |
| Illinois | 34,611 | 13,608 | 19,165 | 39,672 | 75,553 | 10,542 | 1.035 |
| Michigan | 22,150 | 10,400 | 26,368 | 25,520 | 57,873 | 10,493 | 0.878 |
| Wisconsin | 13,231 | 568 | 13,739 | 14,060 | 26,007 | 11,217 | 1.061 |
| **East North Central** | **152,194** | **27,554** | **65,882** | **162,546** | **337,693** | **10,475** | **0.955** |
| Minnesota | 12,610 | 529 | 8,077 | 13,272 | 20,866 | 11,142 | 1.257 |
| Iowa | 10,745 | 231 | 6,834 | 11,185 | 18,262 | 10,938 | 1.210 |
| Missouri | 23,188 | 566 | 15,329 | 24,046 | 48,369 | 10,613 | 0.987 |
| North Dakota | 11,618 | 68 | 15 | 11,648 | 13,315 | 13,721 | 1.749 |
| South Dakota | 2,683 | 67 | 259 | 2,733 | 2,845 | 12,070 | 1.911 |
| Nebraska | 4,702 | 262 | 11,850 | 5,382 | 9,190 | 11,026 | 1.158 |
| Kansas | 10,034 | 875 | 101,022 | 15,630 | 25,122 | 11,344 | 1.238 |
| **West North Central** | **75,580** | **2,598** | **143,386** | **83,896** | **137,969** | **10,996** | **1.207** |
| Delaware, Maryland, and DC | 6,944 | 16,840 | 12,229 | 11,654 | 27,318 | 10,614 | 0.817 |
| Virginia | 5,560 | 15,379 | 2,285 | 9,494 | 21,974 | 10,650 | 0.831 |
| West Virginia | 28,499 | 683 | 62 | 28,668 | 70,372 | 9,745 | 0.815 |
| North Carolina | 23,920 | 561 | 1,702 | 24,125 | 60,809 | 9,673 | 0.791 |
| South Carolina | 7,927 | 2,647 | 5,417 | 8,799 | 21,478 | 10,139 | 0.812 |
| Georgia | 21,191 | 1,085 | 3,666 | 21,631 | 50,507 | 10,167 | 0.853 |
| Florida | 8,785 | 73,193 | 166,047 | 35,450 | 78,949 | 10,485 | 0.890 |
| **South Atlantic** | **102,826** | **110,388** | **191,408** | **139,821** | **331,407** | **10,127** | **0.823** |
| Kentucky | 24,383 | 227 | 1,902 | 24,531 | 54,165 | 10,165 | 0.905 |
| Tennessee | 21,679 | 406 | 1,105 | 21,831 | 50,930 | 9,940 | 0.857 |
| Alabama | 19,593 | 131 | 1,382 | 19,689 | 45,413 | 10,309 | 0.866 |
| Mississippi | 3,072 | 5,149 | 95,073 | 8,438 | 18,500 | 10,853 | 0.883 |
| **East South Central** | **68,727** | **5,913** | **99,462** | **74,489** | **169,008** | **10,205** | **0.877** |
| Arkansas | 1,774 | 3,285 | 58,863 | 6,653 | 10,159 | 11,111 | 1.206 |
| Louisiana | – | 8,270 | 424,991 | 32,764 | 45,739 | 10,862 | – |
| Oklahoma | 5,752 | 59 | 329,940 | 22,404 | 43,319 | 10,347 | 1.185 |
| Texas | 45,352 | 1,786 | 1,430,028 | 148,656 | 201,931 | 10,587 | 1.462 |
| **West South Central** | **52,878** | **13,400** | **2,243,822** | **210,477** | **301,148** | **10,609** | **1.416** |
| Montana | 3,352 | 59 | 4,182 | 3,641 | 5,514 | 11,296 | 1.304 |
| Idaho | – | – | 46 | 2 | 4 | 12,502 | – |
| Wyoming | 13,498 | 123 | 222 | 13,550 | 21,245 | 11,516 | 1.276 |
| Colorado | 10,124 | 444 | 31,928 | 11,823 | 21,254 | 11,140 | 1.089 |
| New Mexico | 11,406 | 391 | 56,280 | 14,779 | 24,581 | 10,535 | 1.180 |
| Arizona | 10,916 | 1,622 | 49,699 | 14,080 | 27,055 | 10,797 | 1.006 |
| Utah | 4,895 | 126 | 5,133 | 5,141 | 11,291 | 10,373 | 0.901 |
| Nevada | 4,064 | 2,453 | 27,541 | 6,056 | 11,751 | 11,427 | 1.048 |
| **Mountain** | **58,255** | **5,218** | **175,031** | **69,072** | **122,695** | **10,972** | **1.114** |
| Washington | 4,950 | 232 | 941 | 5,097 | 7,302 | 10,719 | 1.389 |
| Oregon | 485 | 110 | 321 | 543 | 810 | 10,936 | 1.338 |
| California | – | 65,222 | 518,808 | 58,283 | 89,549 | 10,432 | – |
| **Pacific** | **5,435** | **65,564** | **520,070** | **63,923** | **97,661** | **10,452** | **1.384** |
| Alaska | 273 | 891 | 28,763 | 2,375 | 2,548 | 15,801 | 1.838 |
| Hawaii | – | [illegible] | – | 4,342 | 6,490 | 10,718 | – |
| **Alaska & Hawaii** | **273** | [illegible] | **28,763** | **6,717** | **9,038** | **11,174** | **1.838** |

*Excludes geothermal, wood, waste, and nuclear fuels. p Preliminary.

†EEI estimate.

‡Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of Generation data.

Source: Energy Information Administration.

# TABLE 25
# ANALYSIS OF FUEL FOR ELECTRIC GENERATION
## TOTAL ELECTRIC UTILITY INDUSTRY
## FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES 1977–1980 BY GEOGRAPHIC DIVISION

| | | Composite Averages | | | Coal (a) | | | Oil (b) | | | Gas (c) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Division | Year | Cost per Million Btu Consumed | Cost of Fuel per Net Kwhr | Btu per Net Kwhr | Cost per Million Btu Consumed | Cost per Ton | Btu per Pound | Cost per Million Btu Consumed | Cost per Bbl | Btu per Gallon | Cost per Million Btu Consumed | Cost per M Cu Ft | Btu per Cu Ft |
| United States ....... | 1980 | 197.0¢ | 2.07¢ | 10,489 | 139.9¢ | $30.04 | 10,732 | 418.2¢ | $25.91 | 147,484 | 220.4¢ | 228.2¢ | 1,035 |
| | 1979 | 155.4 | 1.62 | 10,470 | 126.7 | 27.13 | 10,702 | 293.3 | 18.09 | 146,846 | 173.9 | 179.9 | 1,035 |
| | 1978 | 145.3 | 1.53 | 10,495 | 116.1 | 24.70 | 10,635 | 222.9 | 13.67 | 146,001 | 141.0 | 145.5 | 1,032 |
| | 1977 | 131.8 | 1.38 | 10,449 | 97.5 | 20.97 | 10,751 | 224.3 | 13.74 | 145,866 | 128.3 | 132.4 | 1,031 |
| New England ....... | 1980 | 376.8 | 3.89 | 10,317 | 168.4 | 43.62 | 12,953 | 398.5 | 24.82 | 148,291 | 297.5 | 300.1 | 1,009 |
| | 1979 | 267.0 | 2.76 | 10,331 | 158.7 | 40.70 | 12,823 | 274.9 | 17.07 | 147,862 | 239.4 | 241.9 | 1,010 |
| | 1978 | 197.8 | 2.02 | 10,192 | 149.8 | 38.11 | 12,718 | 200.2 | 12.37 | 147,112 | 150.2 | 150.2 | 1,000 |
| | 1977 | 208.6 | 2.13 | 10,196 | 132.3 | 35.25 | 13,323 | 213.2 | 13.10 | 146,326 | 208.8 | 208.8 | 1,000 |
| Middle Atlantic ..... | 1980 | 243.2 | 2.59 | 10,639 | 142.0 | 34.39 | 12,106 | 428.5 | 26.45 | 146,964 | 298.2 | 308.0 | 1,033 |
| | 1979 | 195.9 | 2.03 | 10,598 | 130.3 | 31.27 | 12,003 | 301.7 | 18.51 | 146,121 | 250.5 | 258.7 | 1,033 |
| | 1978 | 167.6 | 1.78 | 10,595 | 125.9 | 29.87 | 11,858 | 217.0 | 13.29 | 145,858 | 170.1 | 174.0 | 1,023 |
| | 1977 | 161.2 | 1.71 | 10,612 | 110.4 | 26.27 | 11,902 | 224.2 | 13.70 | 145,496 | 166.5 | 171.7 | 1,031 |
| East North Central ... | 1980 | 168.9 | 1.77 | 10,475 | 151.4 | 33.28 | 10,990 | 474.3 | 28.99 | 145,533 | 288.7 | 261.6 | 906 |
| | 1979 | 149.5 | 1.57 | 10,527 | 135.0 | 29.25 | 10,836 | 327.2 | 19.86 | 144,546 | 238.6 | 211.4 | 886 |
| | 1978 | 137.6 | 1.46 | 10,598 | 124.1 | 26.52 | 10,683 | 263.9 | 15.88 | 143,207 | 200.1 | 173.9 | 869 |
| | 1977 | 110.8 | 1.17 | 10,525 | 99.7 | 21.39 | 10,724 | 260.1 | 15.62 | 142,974 | 149.8 | 149.0 | 995 |
| West North Central .. | 1980 | 125.0 | 1.37 | 10,996 | 116.8 | 22.13 | 9,472 | 349.8 | 22.14 | 147,882 | 185.8 | 180.6 | 972 |
| | 1979 | 118.9 | 1.31 | 11,042 | 110.9 | 21.16 | 9,539 | 250.1 | 15.21 | 144,837 | 146.2 | 142.2 | 972 |
| | 1978 | 108.0 | 1.20 | 11,099 | 99.3 | 19.07 | 9,605 | 219.6 | 13.26 | 143,760 | 120.4 | 117.2 | 973 |
| | 1977 | 89.7 | 0.99 | 11,071 | 80.6 | 15.71 | 9,740 | 211.1 | 12.87 | 145,181 | 103.4 | 101.4 | 981 |
| South Atlantic ....... | 1980 | 184.6 | 2.05 | 10,127 | 157.1 | 37.98 | 12,089 | 378.4 | 23.59 | 148,512 | 162.9 | 166.3 | 1,021 |
| | 1979 | 179.1 | 1.81 | 10,108 | 146.1 | 34.91 | 11,947 | 281.2 | 17.48 | 147,996 | 137.0 | 139.3 | 1,017 |
| | 1978 | 154.8 | 1.58 | 10,201 | 136.9 | 32.24 | 11,779 | 203.7 | 12.56 | 146,822 | 104.2 | 105.4 | 1,011 |
| | 1977 | 143.5 | 1.46 | 10,192 | 118.4 | 27.87 | 11,769 | 213.1 | 13.13 | 146,774 | 91.8 | 92.4 | 1,006 |
| East South Central ... | 1980 | 162.5 | 1.66 | 10,205 | 155.9 | 36.33 | 11,650 | 305.1 | 19.23 | 150,074 | 212.2 | 216.1 | 1,018 |
| | 1979 | 143.8 | 1.48 | 10,303 | 138.3 | 31.74 | 11,477 | 222.0 | 13.92 | 149,240 | 178.2 | 181.2 | 1,017 |
| | 1978 | 131.2 | 1.35 | 10,299 | 122.3 | 27.34 | 11,176 | 202.6 | 12.34 | 145,024 | 147.9 | 151.5 | 1,024 |
| | 1977 | 110.3 | 1.14 | 10,297 | 101.5 | 22.69 | 11,174 | 199.2 | 12.23 | 146,200 | 135.9 | 140.6 | 1,035 |
| West South Central .. | 1980 | 173.1 | 1.84 | 10,609 | 118.9 | 17.97 | 7,560 | 370.9 | 23.13 | 148,485 | 184.8 | 192.3 | 1,041 |
| | 1979 | 147.8 | 1.57 | 10,595 | 98.4 | 14.36 | 7,297 | 252.2 | 15.64 | 147,630 | 153.3 | 159.8 | 1,043 |
| | 1978 | 129.3 | 1.36 | 10,514 | 73.2 | 10.66 | 7,284 | 197.1 | 12.14 | 146,664 | 131.7 | 136.8 | 1,039 |
| | 1977 | 119.0 | 1.24 | 10,423 | 53.9 | 7.47 | 6,928 | 199.5 | 12.32 | 147,000 | 117.2 | 121.2 | 1,033 |
| Mountain ........... | 1980 | 111.4 | 1.22 | 10,972 | 81.4 | 15.56 | 9,562 | 417.1 | 27.27 | 146,696 | 246.5 | 253.9 | 1,030 |
| | 1979 | 101.0 | 1.11 | 10,978 | 68.9 | 13.40 | 9,722 | 279.8 | 17.10 | 145,472 | 208.3 | 214.9 | 1,031 |
| | 1978 | 81.2 | 0.88 | 10,871 | 55.7 | 10.81 | 9,701 | 233.9 | 14.15 | 144,014 | 146.5 | 150.5 | 1,028 |
| | 1977 | 73.2 | 0.79 | 10,745 | 47.8 | 9.30 | 9,733 | 233.5 | 14.20 | 144,832 | 139.6 | 139.6 | 1,031 |
| Pacific ............. | 1980 | 393.9 | 4.12 | 10,452 | 90.5 | 14.68 | 8,113 | 497.9 | 30.49 | 145,788 | 350.1 | 368.8 | 1,053 |
| | 1979 | 275.6 | 2.78 | 10,077 | 63.6 | 10.50 | 8,256 | 325.4 | 19.92 | 145,744 | 244.3 | 257.7 | 1,055 |
| | 1978 | 242.1 | 2.48 | 10,260 | 61.2 | 9.72 | 7,942 | 280.0 | 16.71 | 145,535 | 218.1 | 230.9 | 1,059 |
| | 1977 | 222.7 | 2.28 | 10,216 | 50.5(d) | 8.35 | 8,274(d) | 248.0 | 15.14 | 145,359 | 207.9 | 219.7 | 1,056 |
| Alaska ............. | 1980 | 105.1 | 1.66 | 15,801 | 190.6 | 30.63 | 8,035 | 399.3 | 25.59 | 133,791 | 83.6 | 83.6 | 1,000 |
| | 1979 | 132.1 | 1.97 | 14,893 | 131.0 | 22.77 | 8,692 | 401.7 | 22.78 | 135,009 | – | – | – |
| | 1978 | | | Not reported | | | | | | | | | |
| | 1977 | 124.5 | 1.90 | 15,287 | 108.0 | 18.83 | 8,719 | 333.1 | 19.23 | 137,472 | – | – | – |
| Hawaii ............. | 1980 | 378.2 | 4.05 | 10,718 | – | – | – | 378.2 | 23.72 | 149,321 | – | – | – |
| | 1979 | 257.2 | 2.72 | 10,587 | – | – | – | 257.2 | 16.23 | 150,263 | – | – | – |
| | 1978 | 222.4 | 2.37 | 10,655 | – | – | – | 222.4 | 13.98 | 149,629 | – | – | – |
| | 1977 | 189.1 | 2.02 | 10,659 | – | – | – | 189.1 | 11.85 | 149,209 | – | – | – |

(a) Coal includes bituminous and anthracite coal and relatively small amounts of coke, lignite, and wood.
(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline.
(c) Gas includes natural and manufactured gas and waste gas.
(d) Cords and cubic feet of hogged wood, where used, are converted to thermal equivalent pounds and tons of coal at U.S. average Btu per pound.

# TABLE 26
# ANALYSIS OF FUEL FOR ELECTRIC GENERATION
## TOTAL ELECTRIC UTILITY INDUSTRY
## FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
## 1980 BY STATE

| | Composite Averages | | | Coal (a) | | | Oil (b) | | | Gas (c) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Division/State | Cost per Million Btu Consumed | Cost of Fuel per Net Kwhr | Btu per Net Kwhr | Cost per Million Btu Consumed | Cost per Ton | Btu per Lb. | Cost per Million Btu Consumed | Cost per Bbl | Btu per Gallon | Cost per Million Btu Consumed | Cost per M Cu Ft | Btu per Cu Ft |
| **Total United States** | **197.0¢** | **2.07¢** | **10,489** | **139.9¢** | **$30.04** | **10,732** | **418.2¢** | **$25.91** | **147,484** | **220.4¢** | **228.2¢** | **1,035** |
| Maine | 399.6 | 4.47 | 11,178 | – | – | – | 399.6 | 24.91 | 148,410 | – | – | – |
| New Hampshire | 260.7 | 2.85 | 10,943 | 160.5 | 43.62 | 12,161 | 365.9 | 22.81 | 148,413 | – | – | – |
| Vermont | 307.6 | 5.35 | 17,381 | 212.6 | 22.32 | 5,248 | 487.3 | 28.21 | 137,853 | 476.2 | 476.2 | 1,000 |
| Massachusetts | 329.1 | 3.61 | 9,973 | 178.3 | 46.91 | 13,152 | 375.1 | 23.47 | 149,019 | 280.4 | 279.6 | 997 |
| Rhode Island | 376.4 | 4.75 | 12,621 | – | – | – | 384.5 | 24.03 | 148,811 | – | – | – |
| Connecticut | 457.3 | 4.83 | 10,553 | – | – | – | 457.3 | 28.17 | 146,668 | – | – | – |
| **New England** | **376.8** | **3.89** | **10,317** | **168.4** | **43.62** | **12,953** | **398.5** | **24.82** | **148,291** | **297.5** | **300.1** | **1,009** |
| New York | 328.1 | 3.58 | 10,912 | 154.4 | 37.50 | 12,144 | 409.1 | 25.39 | 147,756 | 294.2 | 303.4 | 1,031 |
| New Jersey | 339.7 | 3.75 | 11,030 | 189.9 | 48.52 | 12,777 | 474.8 | 28.78 | 144,350 | 303.0 | 314.0 | 1,036 |
| Pennsylvania | 171.1 | 1.78 | 10,402 | 137.1 | 33.06 | 12,060 | 455.1 | 28.00 | 146,501 | 342.4 | 347.7 | 1,015 |
| **Middle Atlantic** | **243.2** | **2.59** | **10,639** | **142.0** | **34.39** | **12,106** | **428.5** | **26.45** | **146,964** | **298.2** | **308.0** | **1,033** |
| Ohio | 153.0 | 1.58 | 10,332 | 149.4 | 33.89 | 11,343 | 472.5 | 28.32 | 142,695 | 286.4 | 290.8 | 1,016 |
| Indiana | 130.0 | 1.35 | 10,352 | 128.4 | 27.55 | 10,729 | 497.1 | 28.92 | 138,517 | 246.5 | 247.1 | 1,002 |
| Illinois | 208.8 | 2.20 | 10,542 | 169.2 | 34.71 | 10,261 | 530.0 | 32.79 | 147,283 | 321.7 | 330.5 | 1,027 |
| Michigan | 195.1 | 2.05 | 10,493 | 165.8 | 40.49 | 12,212 | 400.3 | 24.28 | 144,432 | 272.6 | 198.8 | 729 |
| Wisconsin | 155.9 | 1.75 | 11,217 | 143.9 | 29.78 | 10,352 | 498.0 | 29.19 | 139,567 | 274.3 | 276.2 | 1,007 |
| **East North Central** | **168.9** | **1.77** | **10,475** | **151.4** | **33.28** | **10,990** | **474.3** | **28.99** | **145,533** | **288.7** | **261.6** | **906** |
| Minnesota | 111.2 | 1.24 | 11,142 | 104.6 | 18.31 | 8,755 | 404.7 | 27.22 | 160,129 | 216.4 | 215.1 | 994 |
| Iowa | 143.5 | 1.57 | 10,938 | 140.0 | 26.15 | 9,342 | 427.1 | 25.33 | 141,202 | 225.4 | 226.3 | 1,004 |
| Missouri | 124.6 | 1.32 | 10,613 | 120.3 | 25.67 | 10,673 | 396.1 | 23.11 | 138,935 | 219.4 | 214.7 | 979 |
| North Dakota | 64.4 | 0.88 | 13,721 | 62.6 | 8.86 | 7,079 | 346.9 | 21.29 | 146,099 | 249.8 | 253.3 | 1,014 |
| South Dakota | 85.5 | 1.03 | 12,070 | 81.2 | 10.31 | 6,345 | 297.1 | 28.51 | 137,625 | 251.1 | 232.9 | 928 |
| Nebraska | 129.9 | 1.43 | 11,026 | 121.1 | 22.85 | 9,434 | 376.8 | 23.31 | 147,276 | 184.6 | 174.5 | 945 |
| Kansas | 147.8 | 1.48 | 11,344 | 108.5 | 20.06 | 9,246 | 272.9 | 16.77 | 146,347 | 175.1 | 170.0 | 971 |
| **West North Central** | **125.0** | **1.37** | **10,996** | **116.8** | **22.13** | **9,472** | **349.8** | **22.14** | **147,882** | **185.8** | **180.6** | **972** |
| Delaware, Maryland and D.C. | 261.7 | 2.78 | 10,614 | 162.7 | 40.12 | 12,328 | 423.2 | 26.00 | 146,310 | 309.1 | 319.5 | 1,034 |
| Virginia | 266.4 | 2.84 | 10,650 | 178.3 | 44.49 | 12,481 | 399.8 | 24.92 | 148,424 | 260.0 | 264.2 | 1,016 |
| West Virginia | 140.9 | 1.37 | 9,745 | 140.9 | 33.89 | 12,027 | 590.9 | 34.44 | 138,782 | – | – | – |
| North Carolina | 158.9 | 1.54 | 9,673 | 157.1 | 38.44 | 12,230 | 537.2 | 31.24 | 138,472 | 316.2 | 327.1 | 1,034 |
| South Carolina | 172.1 | 1.75 | 10,139 | 157.4 | 39.07 | 12,412 | 336.6 | 20.45 | 144,666 | 236.2 | 242.9 | 1,028 |
| Georgia | 160.3 | 1.63 | 10,167 | 157.8 | 37.35 | 11,835 | 326.7 | 20.58 | 145,516 | 191.5 | 273.7 | 1,430 |
| Florida | 279.2 | 2.93 | 10,485 | 190.5 | 44.74 | 11,743 | 365.2 | 22.88 | 149,164 | 145.7 | 147.2 | 1,010 |
| **South Atlantic** | **184.6** | **2.05** | **10,127** | **157.1** | **37.98** | **12,089** | **378.4** | **23.59** | **148,512** | **162.9** | **166.3** | **1,021** |
| Kentucky | 135.3 | 1.38 | 10,165 | 135.2 | 30.67 | 11,344 | 360.7 | 22.50 | 148,536 | 211.4 | 216.6 | 1,025 |
| Tennessee | 158.5 | 1.58 | 9,940 | 157.9 | 36.69 | 11,621 | 346.8 | 20.39 | 139,961 | 234.4 | 242.6 | 1,035 |
| Alabama | 170.7 | 1.76 | 10,309 | 170.2 | 40.66 | 11,945 | 361.4 | 21.22 | 139,814 | 269.1 | 298.5 | 1,109 |
| Mississippi | 219.7 | 2.38 | 10,853 | 185.2 | 44.62 | 12,044 | 303.0 | 19.16 | 150,582 | 211.0 | 214.5 | 1,017 |
| **East South Central** | **162.5** | **1.66** | **10,205** | **155.9** | **36.33** | **11,650** | **305.1** | **19.23** | **150,074** | **212.2** | **216.1** | **1,018** |
| Arkansas | 232.6 | 2.58 | 11,111 | 138.4 | 22.99 | 8,304 | 376.4 | 23.58 | 149,146 | 212.5 | 218.2 | 1,027 |
| Louisiana | 222.2 | 2.41 | 10,862 | – | – | – | 376.5 | 23.53 | 148,813 | 202.9 | 211.7 | 1,044 |
| Oklahoma | 160.6 | 1.66 | 10,347 | 126.3 | 26.27 | 10,403 | 421.5 | 24.69 | 139,452 | 171.4 | 179.8 | 1,049 |
| Texas | 162.1 | 1.72 | 10,587 | 117.2 | 16.97 | 7,237 | 312.3 | 18.98 | 144,719 | 181.5 | 188.5 | 1,038 |
| **West South Central** | **173.1** | **1.84** | **10,609** | **118.9** | **17.97** | **7,560** | **370.9** | **23.13** | **148,485** | **184.8** | **192.3** | **1,041** |
| Montana | 73.6 | 0.83 | 11,296 | 49.1 | 8.35 | 8,510 | 499.1 | 27.64 | 131,844 | 366.8 | 402.6 | 1,098 |
| Idaho | 368.4 | 4.61 | 12,502 | – | – | – | 252.0 | 14.54 | 137,412 | 376.8 | 387.5 | 1,028 |
| Wyoming | 60.1 | 0.69 | 11,516 | 58.7 | 10.34 | 8,816 | 560.8 | 32.11 | 136,317 | 285.0 | 279.3 | 980 |
| Colorado | 125.2 | 1.39 | 11,140 | 95.4 | 19.03 | 9,971 | 453.1 | 26.93 | 141,488 | 266.1 | 260.5 | 979 |
| New Mexico | 101.3 | 1.07 | 10,535 | 62.5 | 11.05 | 8,840 | 388.3 | 23.22 | 142,390 | 241.6 | 245.9 | 1,018 |
| Arizona | 156.1 | 1.47 | 10,797 | 96.9 | 19.16 | 9,884 | 398.6 | 24.72 | 147,663 | 242.2 | 255.8 | 1,056 |
| Utah | 121.6 | 1.26 | 10,373 | 115.2 | 26.26 | 11,395 | 471.2 | 28.52 | 144,146 | 200.5 | 189.9 | 947 |
| Nevada | 166.2 | 1.90 | 11,427 | 106.7 | 23.98 | 11,236 | 354.9 | 22.04 | 147,885 | 261.8 | 280.7 | 1,072 |
| **Mountain** | **111.4** | **1.22** | **10,972** | **81.4** | **15.56** | **9,562** | **417.1** | **27.27** | **146,696** | **246.5** | **253.9** | **1,030** |
| Washington | 103.8 | 1.11 | 10,719 | 80.6 | 13.05 | 8,100 | 496.8 | 30.22 | 144,818 | 361.1 | 373.7 | 1,035 |
| Oregon | 207.6 | 2.27 | 10,936 | 16.4 | 27.00 | 8,213 | 597.0 | 34.31 | 136,846 | 361.1 | 546.7 | 1,029 |
| California | 413.4 | 4.31 | 10,432 | – | – | – | 497.8 | 30.48 | 145,806 | 349.9 | 368.6 | 1,053 |
| **Pacific** | **393.9** | **4.12** | **10,452** | **90.5** | **14.68** | **8,113** | **497.9** | **30.49** | **145,788** | **350.1** | **368.8** | **1,053** |
| Alaska | 105.1 | 1.66 | 15,801 | 190.6 | 30.63 | 8,035 | 399.3 | 25.59 | 133,791 | 83.6 | 83.6 | 1,000 |
| Hawaii | 378.2 | 4.05 | 10,718 | – | – | – | 378.2 | 23.72 | 149,321 | – | – | – |

See page 34 for footnotes.

# TABLE 27
# AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS* BY YEARS
## (CENTS PER MILLION BTU)

| Year | Coal | Residual Oil** | Natural Gas† | All Fossil Fuels** |
|---|---|---|---|---|
| 1980 | 135.2 | 427.9 | 212.9 | 189.3 |
| 1979 | 122.4 | 299.7 | 175.4 | 162.1 |
| 1978 | 111.6 | 212.3 | 143.8 | 139.3 |
| 1977 | 94.7 | 220.4 | 130.0 | 127.7 |
| 1976 | 84.8 | 195.9 | 103.4 | 110.4 |
| 1975 | 81.4 | 201.4 | 75.4 | 103.0 |

*Excluding Alaska and Hawaii.

**Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, crude oil and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.

†Includes small quantities of coke oven gas, refinery gas and blast furnace gas.

Source: Energy Information Administration.

# ENERGY

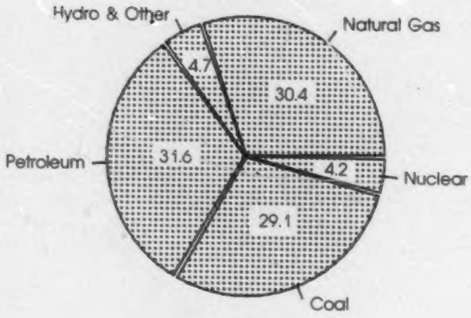
## SECTION V

Chart V-A

### ENERGY PRODUCTION & CONSUMPTION

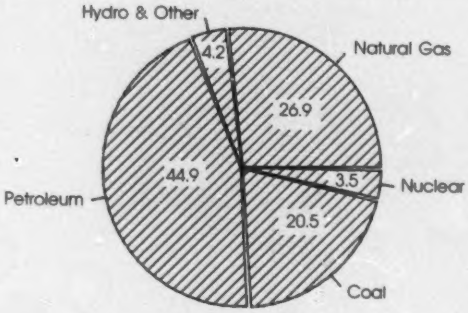
BY PRIMARY ENERGY SOURCE

1980 Production



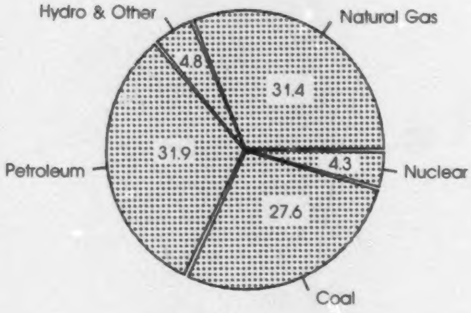
Total BTU's = 64.9 Quads

1980 Consumption



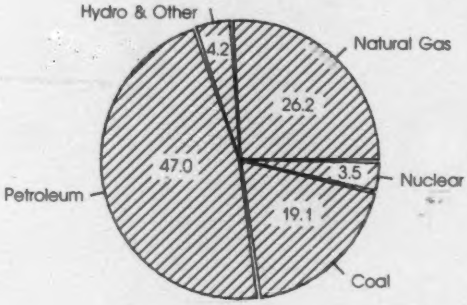
Total BTU's = 76.2 Quads

1979 Production



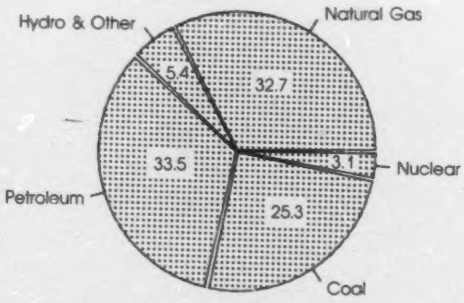
Total BTU's = 63.9 Quads

1979 Consumption



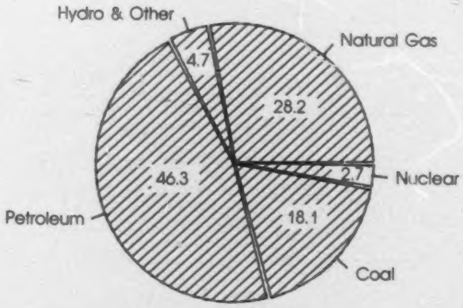
Total BTU's = 79.0 Quads

1975 Production



Total BTU's = 60.1 Quads

1975 Consumption



Total BTU's = 70.7 Quads

Source: 'Monthly Energy Review,' July 1981

# TABLE 31
# ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS
## (QUADRILLION BTU)

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 | 1972 | 1971 | 1970 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SUPPLY | | | | | | | | | | | |
| Production | | | | | | | | | | | |
| Crude Oil & Lease Condensate | 18.25 | 18.10 | 18.43 | 17.45 | 17.26 | 17.73 | 18.57 | 19.49 | 20.04 | 20.03 | 20.40 |
| Natural Gas Plant Liquids | 2.27 | 2.29 | 2.25 | 2.33 | 2.33 | 2.37 | 2.47 | 2.57 | 2.60 | 2.54 | 2.51 |
| Natural Gas | 19.70 | 20.08 | 19.49 | 19.57 | 19.48 | 19.64 | 21.21 | 22.19 | 22.21 | 22.28 | 21.67 |
| Coal | 18.88 | 17.65 | 15.04 | 15.83 | 15.85 | 15.19 | 14.47 | 14.37 | 14.49 | 13.59 | 15.05 |
| Nuclear | 2.70 | 2.75 | 2.98 | 2.70 | 2.11 | 1.90 | 1.27 | 0.91 | 0.58 | 0.41 | 0.24 |
| Hydro | 2.91 | 2.95 | 2.96 | 2.33 | 2.98 | 3.15 | 3.18 | 2.86 | 2.86 | 2.82 | 2.63 |
| Other | 0.11 | 0.09 | 0.07 | 0.08 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 | 0.02 | 0.02 |
| **Total Production** | **64.82** | **63.91** | **61.20** | **60.29** | **60.09** | **60.06** | **61.23** | **62.43** | **62.81** | **61.70** | **62.51** |
| Imports | | | | | | | | | | | |
| Crude Oil | 11.06 | 13.83 | 13.46 | 14.03 | 11.24 | 8.72 | 7.40 | 6.89 | 4.71 | 3.57 | 2.81 |
| Refined Petroleum Products | 3.38 | 4.11 | 4.36 | 4.73 | 4.43 | 4.23 | 5.73 | 6.58 | 5.59 | 4.97 | 4.66 |
| Natural Gas | 1.03 | 1.30 | 0.99 | 1.04 | 0.99 | 0.98 | 0.99 | 1.06 | 1.05 | 0.96 | 0.85 |
| Other | 0.28 | 0.39 | 0.44 | 0.30 | 0.18 | 0.19 | 0.31 | 0.21 | 0.11 | 0.08 | 0.07 |
| **Total Imports** | **15.75** | **19.62** | **19.26** | **20.09** | **16.84** | **14.11** | **14.42** | **14.73** | **11.46** | **9.58** | **8.39** |
| Adjustments | (0.54) | (1.66) | (0.36) | (1.96) | (0.21) | (1.08) | (0.65) | (0.48) | (0.51) | (0.81) | (1.41) |
| **Total Supply** | **80.03** | **81.87** | **80.10** | **78.43** | **76.72** | **73.09** | **75.00** | **76.68** | **73.77** | **70.47** | **69.49** |
| DISPOSITION | | | | | | | | | | | |
| Exports | | | | | | | | | | | |
| Coal | 2.47 | 1.78 | 1.10 | 1.47 | 1.62 | 1.79 | 1.64 | 1.45 | 1.53 | 1.55 | 1.94 |
| Other | 1.29 | 1.12 | 0.85 | 0.63 | 0.59 | 0.60 | 0.60 | 0.63 | 0.61 | 0.63 | 0.73 |
| **Total Exports** | **3.76** | **2.90** | **1.95** | **2.10** | **2.21** | **2.39** | **2.24** | **2.07** | **2.14** | **2.18** | **2.66** |
| Consumption | | | | | | | | | | | |
| Refined Petroleum Products | 34.25 | 37.12 | 37.97 | 37.12 | 35.17 | 32.73 | 33.45 | 34.84 | 32.95 | 30.56 | 29.52 |
| Natural Gas | 20.44 | 20.67 | 20.00 | 19.93 | 20.35 | 19.95 | 21.73 | 22.51 | 22.70 | 22.47 | 21.79 |
| Coal | 15.67 | 15.11 | 13.85 | 13.96 | 13.73 | 12.82 | 12.88 | 13.30 | 12.45 | 12.01 | 12.66 |
| Nuclear | 2.70 | 2.75 | 2.98 | 2.70 | 2.11 | 1.90 | 1.27 | 0.91 | 0.58 | 0.41 | 0.24 |
| Hydro | 3.13 | 3.17 | 3.16 | 2.51 | 3.07 | 3.22 | 3.31 | 3.01 | 2.94 | 2.86 | 2.65 |
| Other | 0.11 | 0.09 | 0.07 | 0.08 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 | 0.02 | 0.02 |
| Net Imports of Coal Coke | (0.04) | 0.07 | 0.13 | 0.02 | * | 0.01 | 0.06 | (0.01) | (0.03) | (0.03) | (0.06) |
| **Total Consumption** | **76.27** | **78.97** | **78.15** | **76.33** | **74.51** | **70.71** | **72.76** | **74.61** | **71.63** | **68.30** | **66.83** |
| **Total Dispostion** | **80.03** | **81.87** | **80.10** | **78.43** | **76.72** | **73.09** | **75.00** | **76.68** | **73.77** | **70.47** | **69.49** |

| | 1969 | 1968 | 1967 | 1966 | 1965 | 1964 | 1963 | 1962 | 1961 | 1960 |
|---|---|---|---|---|---|---|---|---|---|---|
| SUPPLY | | | | | | | | | | |
| Production | | | | | | | | | | |
| Crude Oil & Lease Condensate | 19.56 | 19.31 | 18.65 | 17.56 | 16.52 | 16.16 | 15.97 | 15.52 | 15.21 | 14.93 |
| Natural Gas Plant Liquids | 2.42 | 2.32 | 2.18 | 2.00 | 1.88 | 1.80 | 1.71 | 1.59 | 1.55 | 1.46 |
| Natural Gas | 20.45 | 19.07 | 17.94 | 17.01 | 15.78 | 15.30 | 14.51 | 13.72 | 13.10 | 12.66 |
| Coal | 14.20 | 13.93 | 14.19 | 13.82 | 13.38 | 12.83 | 12.15 | 11.21 | 10.73 | 11.12 |
| Nuclear | 0.15 | 0.14 | 0.09 | 0.06 | 0.04 | 0.04 | 0.04 | 0.03 | 0.02 | 0.01 |
| Hydro | 2.65 | 2.35 | 2.35 | 2.06 | 2.06 | 1.89 | 1.77 | 1.81 | 1.65 | 1.60 |
| Other | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | * | * | * |
| **Total Production** | **59.44** | **57.13** | **55.41** | **52.52** | **49.67** | **48.03** | **46.16** | **43.88** | **42.27** | **41.78** |
| Imports | | | | | | | | | | |
| Crude Oil | 2.99 | 2.76 | 2.40 | 2.62 | 2.65 | 2.58 | 2.43 | 2.42 | 2.25 | 2.20 |
| Refined Petroleum Products | 3.91 | 3.46 | 3.15 | 3.01 | 2.75 | 2.38 | 2.22 | 2.14 | 1.94 | 1.80 |
| Natural Gas | 0.75 | 0.67 | 0.58 | 0.50 | 0.47 | 0.46 | 0.42 | 0.42 | 0.23 | 0.16 |
| Other | 0.06 | 0.05 | 0.05 | 0.05 | 0.04 | 0.07 | 0.03 | 0.03 | 0.04 | 0.07 |
| **Total Imports** | **7.71** | **6.93** | **6.19** | **6.18** | **5.92** | **5.49** | **5.10** | **5.01** | **4.46** | **4.23** |
| Adjustments | (0.47) | (0.71) | (1.56) | (0.85) | (0.74) | (0.90) | (0.80) | (0.61) | (0.62) | (0.44) |
| **Total Supply** | **66.68** | **63.35** | **60.04** | **57.85** | **54.85** | **52.62** | **50.46** | **48.29** | **46.11** | **45.57** |
| DISPOSITION | | | | | | | | | | |
| Exports | | | | | | | | | | |
| Coal | 1.53 | 1.38 | 1.35 | 1.35 | 1.38 | 1.34 | 1.36 | 1.08 | 0.98 | 1.02 |
| Other | 0.62 | 0.65 | 0.79 | 0.50 | 0.48 | 0.51 | 0.49 | 0.40 | 0.40 | 0.46 |
| **Total Exports** | **2.15** | **2.03** | **2.15** | **1.85** | **1.86** | **1.85** | **1.85** | **1.48** | **1.38** | **1.48** |
| Consumption | | | | | | | | | | |
| Refined Petroleum Products | 28.34 | 26.98 | 25.28 | 24.40 | 23.25 | 22.30 | 21.70 | 21.05 | 20.22 | 19.92 |
| Natural Gas | 20.68 | 19.21 | 17.94 | 17.00 | 15.77 | 15.29 | 14.40 | 13.73 | 12.93 | 12.39 |
| Coal | 12.72 | 12.66 | 12.24 | 12.48 | 11.89 | 11.25 | 10.69 | 10.17 | 9.89 | 10.12 |
| Nuclear | 0.15 | 0.14 | 0.09 | 0.06 | 0.04 | 0.04 | 0.04 | 0.03 | 0.02 | 0.01 |
| Hydro | 2.66 | 2.34 | 2.34 | 2.07 | 2.06 | 1.91 | 1.77 | 1.82 | 1.68 | 1.65 |
| Other | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | * | * | * |
| Net Imports of Coal Coke | (0.04) | (0.02) | (0.02) | (0.03) | (0.02) | (0.01) | (0.01) | (0.01) | (0.01) | (0.01) |
| **Total Consumption** | **64.53** | **61.32** | **57.89** | **55.99** | **52.99** | **50.78** | **48.61** | **46.80** | **44.73** | **44.08** |
| **Total Disposition** | **66.68** | **63.35** | **60.04** | **57.85** | **54.85** | **52.62** | **50.46** | **48.29** | **46.11** | **45.57** |

*Less than .005 Quadrillion BTU.

( ) Denotes negative figure.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration.

# TABLE 32
# ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS
## (QUADRILLION BTU)

| Year | Coal | Natural Gas* | Natural Gas Plant Liquids | Petroleum** | Hydro | Nuclear | Other† | Total |
|---|---|---|---|---|---|---|---|---|
| **1980p** | **18.88** | **19.70** | **2.27** | **18.25** | **2.91** | **2.70** | **0.11** | **64.82** |
| 1979 | 17.65 | 20.08 | 2.29 | 18.10 | 2.95 | 2.75 | 0.09 | 63.91 |
| 1978 | 15.04 | 19.49 | 2.25 | 18.43 | 2.96 | 2.98 | 0.06 | 61.20 |
| 1977 | 15.83 | 19.57 | 2.33 | 17.45 | 2.33 | 2.70 | 0.09 | 60.29 |
| 1976 | 15.85 | 19.48 | 2.33 | 17.26 | 2.98 | 2.11 | 0.08 | 60.09 |
| 1975 | 15.19 | 19.64 | 2.37 | 17.73 | 3.15 | 1.90 | 0.07 | 60.06 |
| 1974 | 14.47 | 21.21 | 2.47 | 18.57 | 3.18 | 1.27 | 0.05 | 61.23 |
| 1973 | 14.37 | 22.19 | 2.57 | 19.49 | 2.86 | 0.91 | 0.04 | 62.43 |
| 1972 | 14.49 | 22.21 | 2.60 | 20.04 | 2.86 | 0.58 | 0.03 | 62.81 |
| 1971 | 13.59 | 22.28 | 2.54 | 20.03 | 2.82 | 0.41 | 0.01 | 61.70 |
| 1970 | 15.05 | 21.67 | 2.51 | 20.40 | 2.63 | 0.24 | 0.01 | 62.51 |
| 1969 | 14.20 | 20.45 | 2.42 | 19.56 | 2.65 | 0.15 | 0.01 | 59.44 |
| 1968 | 13.93 | 19.07 | 2.32 | 19.31 | 2.35 | 0.14 | 0.01 | 57.13 |
| 1967 | 14.19 | 17.94 | 2.18 | 18.65 | 2.35 | 0.09 | 0.01 | 55.41 |
| 1966 | 13.82 | 17.01 | 2.00 | 17.56 | 2.06 | 0.06 | ‡ | 52.52 |
| 1965 | 13.38 | 15.78 | 1.88 | 16.52 | 2.06 | 0.04 | ‡ | 49.67 |
| 1964 | 12.83 | 15.30 | 1.80 | 16.16 | 1.89 | 0.04 | ‡ | 48.03 |
| 1963 | 12.15 | 14.51 | 1.71 | 15.97 | 1.77 | 0.04 | ‡ | 46.16 |
| 1962 | 11.21 | 13.72 | 1.59 | 15.52 | 1.81 | 0.03 | ‡ | 43.88 |
| 1961 | 10.73 | 13.10 | 1.55 | 15.21 | 1.65 | 0.02 | ‡ | 42.27 |
| 1960 | 11.12 | 12.66 | 1.46 | 14.93 | 1.60 | 0.01 | ‡ | 41.78 |

*Dry market natural gas.

**Crude oil and lease condensate.

†Includes geothermal, wood and waste.

‡Less than .005 Quadrillion BTU.

p Preliminary.

Source: Energy Information Administration.

# TABLE 33
# TOTAL ENERGY CONSUMPTION BY YEARS
## (QUADRILLION BTU)

| Year | Coal | Natural Gas (Dry) | Petroleum* | Hydro | Nuclear | Other** | Total |
|---|---|---|---|---|---|---|---|
| **1980p** | **15.67** | **20.44** | **34.25** | **3.13** | **2.70** | **0.07** | **76.27** |
| 1979 | 15.11 | 20.67 | 37.12 | 3.17 | 2.75 | 0.16 | 78.97 |
| 1978 | 13.85 | 20.00 | 37.97 | 3.16 | 2.98 | 0.18 | 78.15 |
| 1977 | 13.96 | 19.93 | 37.12 | 2.51 | 2.70 | 0.11 | 76.33 |
| 1976 | 13.73 | 20.35 | 35.17 | 3.07 | 2.11 | 0.08 | 74.51 |
| 1975 | 12.82 | 19.95 | 32.73 | 3.22 | 1.90 | 0.08 | 70.71 |
| 1974 | 12.88 | 21.73 | 33.45 | 3.31 | 1.27 | 0.11 | 72.76 |
| 1973 | 13.30 | 22.51 | 34.84 | 3.01 | 0.91 | 0.03 | 74.61 |
| 1972 | 12.45 | 22.70 | 32.95 | 2.94 | 0.58 | 0.00 | 71.63 |
| 1971 | 12.01 | 22.47 | 30.56 | 2.86 | 0.41 | (0.02) | 68.30 |
| 1970 | 12.66 | 21.79 | 29.52 | 2.65 | 0.24 | (0.05) | 66.83 |
| 1969 | 12.72 | 20.68 | 28.34 | 2.66 | 0.15 | (0.03) | 64.53 |
| 1968 | 12.66 | 19.21 | 26.98 | 2.34 | 0.14 | (0.01) | 61.32 |
| 1967 | 12.24 | 17.94 | 25.28 | 2.34 | 0.09 | (0.01) | 57.89 |
| 1966 | 12.48 | 17.00 | 24.40 | 2.07 | 0.06 | (0.03) | 55.99 |
| 1965 | 11.89 | 15.77 | 23.25 | 2.06 | 0.04 | (0.02) | 52.99 |
| 1964 | 11.25 | 15.29 | 22.30 | 1.91 | 0.04 | (0.01) | 50.78 |
| 1963 | 10.69 | 14.40 | 21.70 | 1.77 | 0.04 | (0.01) | 48.61 |
| 1962 | 10.17 | 13.73 | 21.05 | 1.82 | 0.03 | (0.01) | 46.80 |
| 1961 | 9.89 | 12.93 | 20.22 | 1.68 | 0.02 | (0.01) | 44.73 |
| 1960 | 10.12 | 12.39 | 19.92 | 1.65 | 0.01 | (0.01) | 44.08 |

*Refined petroleum products supplied including natural gas, plant liquids and crude oil burned as fuel.

**Includes geothermal, wood and waste and net imports of coal coke.

( ) Denotes negative figure.

p Preliminary. Total consumption by fuels will not agree with Consumption by Fuel, by Sector (Table 34) due to data revisions.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration.

# TABLE 34
# ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES BY KINDS OF FUELS, BY SECTOR*
## (QUADRILLION BTU)

| | 1980p | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| **Coal** | | | | | | |
| Residential & Commercial | 0.17 | 0.21 | 0.25 | 0.23 | 0.23 | 0.24 |
| Industrial | 3.32 | 3.64 | 3.46 | 3.49 | 3.79 | 3.80 |
| Transportation | ** | ** | ** | ** | ** | 0.00 |
| Electric Utilities | 12.12 | 11.26 | 10.13 | 10.25 | 9.71 | 8.78 |
| **Total** | **15.60** | **15.11** | **13.85** | **13.97** | **13.73** | **12.82** |
| **Natural Gas (Dry)** | | | | | | |
| Residential & Commercial | 7.64 | 7.89 | 7.62 | 7.46 | 7.87 | 7.58 |
| Industrial | 8.44 | 8.55 | 8.54 | 8.64 | 8.77 | 8.53 |
| Transportation | 0.61 | 0.61 | 0.54 | 0.54 | 0.56 | 0.60 |
| Electric Utilities | 3.81 | 3.61 | 3.30 | 3.29 | 3.15 | 3.24 |
| **Total** | **20.50** | **20.67** | **20.00** | **19.93** | **20.35** | **19.95** |
| **Petroleum** | | | | | | |
| Residential & Commercial | 4.37 | 5.03 | 6.27 | 6.25 | 6.30 | 5.79 |
| Industrial | 8.86 | 9.40 | 7.84 | 7.69 | 6.95 | 6.16 |
| Transportation | 17.99 | 19.30 | 20.04 | 19.16 | 18.47 | 17.55 |
| Electric Utilities | 2.99 | 3.39 | 3.81 | 4.03 | 3.45 | 3.23 |
| **Total** | **34.20** | **37.12** | **37.97** | **37.12** | **35.17** | **32.73** |

*Sector data excludes electricity sales and energy losses attributed to electric generation.

**Since 1976 the amount of coal consumed by the transportation sector has been negligible.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration.

p Preliminary.

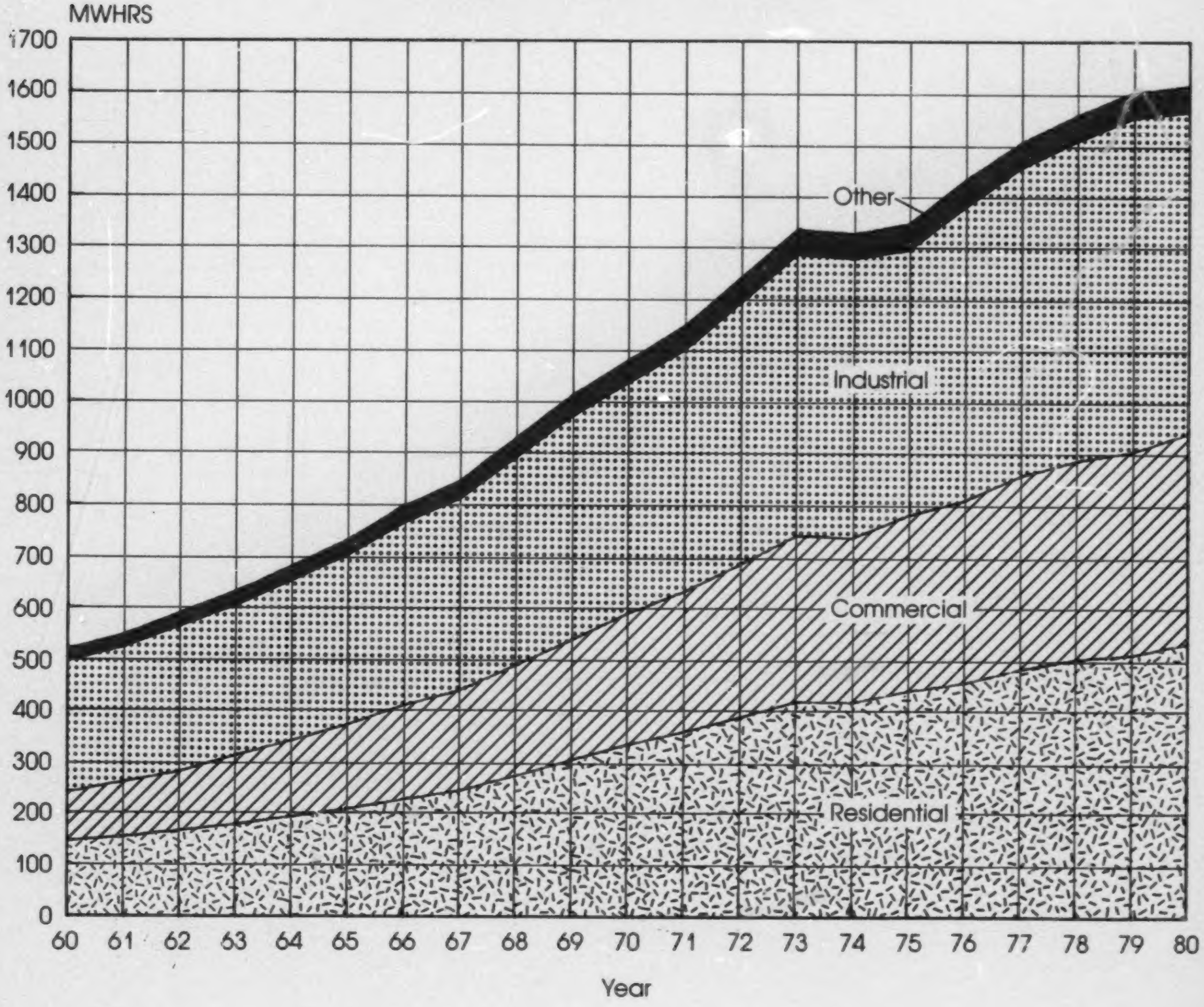
# ENERGY SALES

## SECTION VI

Chart VI-A

**SALES TO ULTIMATE CUSTOMERS**

INVESTOR OWNED ELECTRIC UTILITIES



Based on Table 39, page 43.

# TABLE 38
# ENERGY SALES — TOTAL ELECTRIC UTILITY INDUSTRY
## BY YEARS AND CLASSES OF SERVICE
## KILOWATT-HOURS IN MILLIONS

| Year | Total Sales | Exports to Canada and Mexico | Total Sales to Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Interdepartmental |
|---|---|---|---|---|---|---|---|---|---|---|
| **1980** | **2,098,330p** | **2,997p** | **2,095,333** | **720,784** | **509,547** | **791,241** | **14,566** | **48,426** | **4,292** | **6,477** |
| 1979 | 2,081,070 | 1,849 | 2,079,221 | 694,266 | 493,494 | 815,586 | 14,755 | 49,481 | 4,245 | 7,394 |
| 1978 | 2,019,968 | 2,150 | 2,017,818 | 679,156 | 480,748 | 782,141 | 14,803 | 49,509 | 4,336 | 7,125 |
| 1977 | 1,953,535 | 2,744 | 1,950,791 | 652,345 | 469,227 | 757,168 | 14,418 | 46,242 | 4,212 | 7,179 |
| 1976 | 1,852,003 | 2,378 | 1,849,625 | 613,072 | 440,625 | 725,169 | 14,413 | 45,625 | 4,338 | 6,383 |
| 1975 | 1,738,107 | 5,083 | 1,733,024 | 586,149 | 418,069 | 661,558 | 13,907 | 43,625 | 4,273 | 5,443 |
| 1974 | 1,703,495 | 2,726 | 1,700,769 | 554,960 | 392,716 | 689,435 | 13,313 | 40,721 | 4,258 | 5,366 |
| 1973 | 1,705,773 | 2,570 | 1,703,203 | 554,171 | 396,903 | 687,235 | 12,836 | 42,340 | 4,186 | 5,532 |
| 1972 | 1,580,466 | 2,752 | 1,577,714 | 511,423 | 361,859 | 639,467 | 12,193 | 43,190 | 4,440 | 5,142 |
| 1971 | 1,469,955 | 3,514 | 1,466,441 | 479,080 | 333,752 | 592,700 | 11,673 | 39,819 | 4,537 | 4,880 |
| 1970 | 1,395,568 | 4,209 | 1,391,359 | 447,795 | 312,750 | 572,522 | 11,183 | 37,816 | 4,633 | 4,660 |
| 1969 | 1,311,008 | 3,830 | 1,307,178 | 407,922 | 286,686 | 557,220 | 10,772 | 35,861 | 4,531 | 4,186 |
| 1968 | 1,206,606 | 4,285 | 1,202,321 | 367,692 | 265,151 | 518,834 | 10,302 | 32,162 | 4,540 | 3,640 |
| 1967 | 1,111,373 | 4,350 | 1,107,023 | 331,525 | 242,492 | 486,043 | 9,863 | 29,426 | 4,572 | 3,102 |
| 1966 | 1,042,158 | 3,176 | 1,038,982 | 306,572 | 225,878 | 465,077 | 9,240 | 25,922 | 4,514 | 1,779 |
| 1965 | 957,113 | 3,699 | 953,414 | 280,970 | 202,112 | 433,365 | 8,782 | 21,675 | 4,652 | 1,858 |
| 1964 | 894,609 | 4,253 | 890,356 | 262,010 | 183,539 | 409,356 | 8,290 | 20,651 | 4,721 | 1,789 |
| 1963 | 832,796 | 1,985 | 830,811 | 241,692 | 166,516 | 388,399 | 7,748 | 20,194 | 4,667 | 1,595 |
| 1962 | 777,749 | 1,661 | 776,088 | 226,414 | 144,095 | 373,916 | 7,350 | 18,349 | 4,717 | 1,247 |
| 1961 | 721,645 | 917 | 720,728 | 209,021 | 134,864 | 347,427 | 6,762 | 16,438 | 4,685 | 1,531 |
| 1960 | 683,987 | 788 | 683,199 | 196,400 | 114,806 | 344,799 | 6,121 | 15,642 | 4,770 | 661 |

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary.

# TABLE 39
# ENERGY SALES — INVESTOR-OWNED ELECTRIC UTILITIES
## BY YEARS AND CLASSES OF SERVICE
## KILOWATT-HOURS IN MILLIONS

| Year | Total Sales | Sales for Resale† | Total Sales to Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Interdepartmental |
|---|---|---|---|---|---|---|---|---|---|---|
| **1980** | **1,732,409** | **118,745** | **1,613,664** | **532,102** | **408,273** | **623,510** | **10,678** | **34,359** | **2,156** | **2,586** |
| 1979 | 1,719,640 | 117,408 | 1,602,232 | 509,655 | 394,511 | 648,031 | 10,854 | 34,165 | 2,103 | 2,913 |
| 1978 | 1,675,477 | 118,716 | 1,556,761 | 501,409 | 384,726 | 620,470 | 11,042 | 34,386 | 2,085 | 2,643 |
| 1977 | 1,619,820 | 115,409 | 1,504,411 | 481,167 | 375,903 | 598,042 | 10,912 | 33,208 | 2,450 | 2,729 |
| 1976 | 1,530,286 | 99,496 | 1,430,790 | 453,774 | 355,555 | 569,134 | 11,276 | 34,810 | 3,930 | 2,311 |
| 1975 | 1,447,147 | 101,273 | 1,345,874 | 439,496 | 340,082 | 515,798 | 10,868 | 33,528 | 4,158 | 1,944 |
| 1974 | 1,418,958 | 93,201 | 1,325,757 | 416,333 | 319,706 | 542,234 | 10,409 | 30,876 | 4,161 | 2,038 |
| 1973 | 1,417,386 | 82,990 | 1,334,396 | 416,851 | 323,018 | 545,912 | 10,034 | 32,452 | 4,086 | 2,043 |
| 1972 | 1,316,379 | 76,572 | 1,239,807 | 386,561 | 297,028 | 507,080 | 9,581 | 33,491 | 4,333 | 1,733 |
| 1971 | 1,215,614 | 70,009 | 1,145,605 | 358,564 | 272,703 | 468,512 | 9,206 | 30,618 | 4,424 | 1,578 |
| 1970 | 1,142,777 | 63,032 | 1,079,745 | 333,895 | 254,684 | 447,664 | 8,814 | 28,721 | 4,520 | 1,447 |
| 1969 | 1,070,721 | 58,641 | 1,012,080 | 304,497 | 232,965 | 433,422 | 8,441 | 26,928 | 4,417 | 1,410 |
| 1968 | 984,542 | 55,572 | 928,970 | 272,792 | 215,090 | 403,468 | 8,089 | 23,908 | 4,424 | 1,199 |
| 1967 | 890,755 | 45,334 | 845,421 | 244,416 | 194,772 | 371,319 | 7,695 | 21,726 | 4,445 | 1,048 |
| 1966 | 840,093 | 43,776 | 796,317 | 226,727 | 182,923 | 354,759 | 7,299 | 19,427 | 4,403 | 779 |
| 1965 | 770,804 | 39,471 | 731,333 | 207,580 | 164,354 | 329,541 | 6,943 | 17,683 | 4,543 | 689 |
| 1964 | 717,951 | 37,980 | 679,971 | 192,855 | 148,050 | 310,678 | 6,592 | 16,580 | 4,606 | 610 |
| 1963 | 665,808 | 35,160 | 630,648 | 178,157 | 133,679 | 291,542 | 6,251 | 15,859 | 4,567 | 593 |
| 1962 | 621,040 | 32,492 | 588,548 | 165,598 | 115,792 | 281,701 | 5,947 | 14,464 | 4,674 | 372 |
| 1961 | 575,573 | 28,817 | 546,756 | 153,541 | 107,522 | 261,441 | 5,596 | 13,481 | 4,639 | 536 |
| 1960 | 544,203 | 25,392 | 518,811 | 144,616 | 95,780 | 254,702 | 5,196 | 13,561 | 4,722 | 234 |

†To non-investor-owned electric utilities and exports.
*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

# TABLE 40
# ENERGY SALES IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
## BY YEARS AND CLASSES OF SERVICE

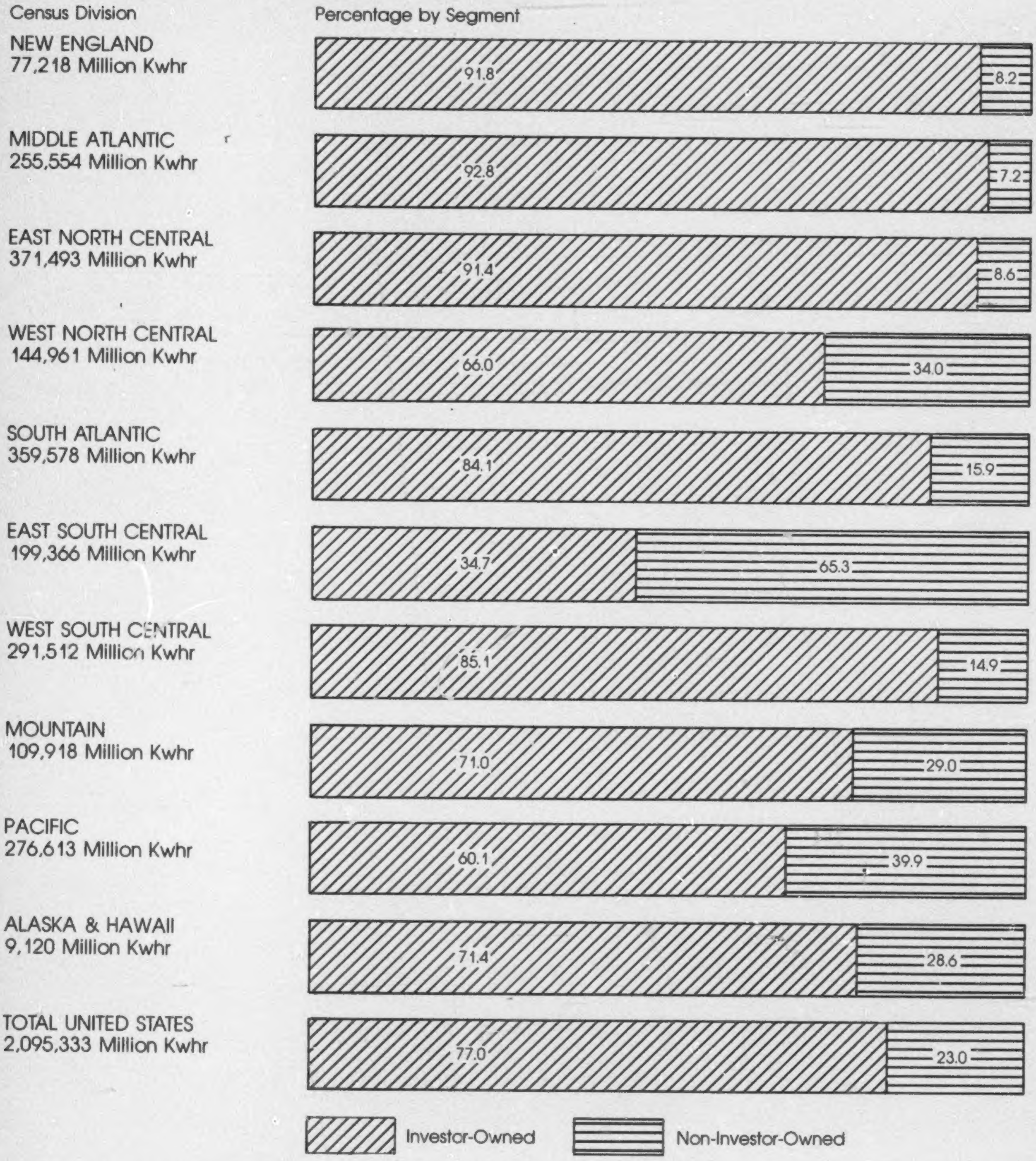
| Year | Residential | Commercial | Industrial | Street & Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|
| **1980** | **34.4%** | **24.3%** | **37.8%** | **0.7%** | **2.3%** | **0.2%** | **0.3%** |
| 1979 | 33.4 | 23.7 | 39.2 | 0.7 | 2.4 | 0.2 | 0.4 |
| 1978 | 33.7 | 23.8 | 38.8 | 0.7 | 2.4 | 0.2 | 0.4 |
| 1977 | 33.4 | 24.1 | 38.8 | 0.7 | 2.4 | 0.2 | 0.4 |
| 1976 | 33.2 | 23.8 | 39.2 | 0.8 | 2.5 | 0.2 | 0.3 |
| 1975 | 33.8 | 24.1 | 38.2 | 0.8 | 2.5 | 0.3 | 0.3 |
| 1974 | 32.6 | 23.1 | 40.5 | 0.8 | 2.4 | 0.3 | 0.3 |
| 1973 | 32.5 | 23.3 | 40.4 | 0.8 | 2.5 | 0.2 | 0.3 |
| 1972 | 32.4 | 23.0 | 40.5 | 0.8 | 2.7 | 0.3 | 0.3 |
| 1971 | 32.7 | 22.8 | 40.4 | 0.8 | 2.7 | 0.3 | 0.3 |
| 1970 | 32.2 | 22.5 | 41.2 | 0.8 | 2.7 | 0.3 | 0.3 |
| 1969 | 31.2 | 21.9 | 42.7 | 0.8 | 2.7 | 0.4 | 0.3 |
| 1968 | 30.6 | 22.1 | 43.1 | 0.8 | 2.7 | 0.4 | 0.3 |
| 1967 | 29.9 | 21.9 | 43.9 | 0.9 | 2.7 | 0.4 | 0.3 |
| 1966 | 29.5 | 21.7 | 44.8 | 0.9 | 2.5 | 0.4 | 0.2 |
| 1965 | 29.5 | 21.2 | 45.4 | 0.9 | 2.3 | 0.5 | 0.2 |
| 1964 | 29.4 | 20.6 | 46.0 | 0.9 | 2.3 | 0.6 | 0.2 |
| 1963 | 29.1 | 20.0 | 46.8 | 0.9 | 2.4 | 0.6 | 0.2 |
| 1962 | 29.2 | 18.6 | 48.2 | 0.9 | 2.3 | 0.6 | 0.2 |
| 1961 | 29.0 | 18.7 | 48.2 | 0.9 | 2.3 | 0.7 | 0.2 |
| 1960 | 28.7 | 16.8 | 50.5 | 0.9 | 2.3 | 0.7 | 0.1 |

Based on Table 38.

Chart VI-B

**ENERGY SALES TO ULTIMATE CUSTOMERS**

BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 41, page 46 and Table 42, page 47.

# TABLE 41
# ENERGY SALES—TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND CLASSES OF SERVICE
## YEAR 1980—KILOWATT-HOURS IN MILLIONS

| Division/State | Total to Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **2,095,333** | **720,784** | **509,547** | **791,241** | **14,566** | **48,426** | **4,292** | **6,477** |
| Maine | 7,957 | 3,056 | 1,579 | 3,127 | 60 | 135 | – | – |
| New Hampshire | 6,060 | 2,536 | 1,099 | 2,353 | 26 | 46 | – | – |
| Vermont | 3,717 | 1,678 | 669 | 1,214 | 11 | 145 | – | – |
| Massachusetts | 33,072 | 11,963 | 11,490 | 8,607 | 365 | 324 | 55 | 268 |
| Rhode Island | 5,080 | 1,839 | 1,673 | 1,402 | 66 | 100 | – | – |
| Connecticut | 21,332 | 8,254 | 6,814 | 6,018 | 222 | 24 | – | – |
| **New England** | **77,218** | **29,326** | **23,324** | **22,721** | **750** | **774** | **55** | **268** |
| New York | 105,927 | 30,615 | 32,837 | 32,572 | 1,154 | 6,535 | 2,170 | 44 |
| New Jersey | 49,851 | 16,507 | 16,531 | 16,360 | 416 | – | 8 | 29 |
| Pennsylvania | 99,776 | 31,831 | 20,320 | 45,942 | 562 | 240 | 824 | 57 |
| **Middle Atlantic** | **255,554** | **78,953** | **69,688** | **94,874** | **2,132** | **6,775** | **3,002** | **130** |
| Ohio | 114,107 | 33,838 | 22,031 | 54,260 | 697 | 3,191 | 49 | 41 |
| Indiana | 55,892 | 19,641 | 10,423 | 25,156 | 366 | 253 | 12 | 41 |
| Illinois | 96,457 | 29,633 | 25,938 | 34,633 | 705 | 5,172 | 364 | 12 |
| Michigan | 67,935 | 22,293 | 14,703 | 28,929 | 616 | 1,281 | – | 113 |
| Wisconsin | 37,102 | 13,815 | 9,274 | 13,098 | 469 | 396 | – | 50 |
| **East North Central** | **371,493** | **119,220** | **82,369** | **156,076** | **2,853** | **10,293** | **425** | **257** |
| Minnesota | 33,377 | 11,989 | 5,551 | 15,087 | 247 | 438 | – | 65 |
| Iowa | 24,938 | 9,913 | 5,375 | 9,040 | 214 | 360 | – | 36 |
| Missouri | 40,335 | 17,153 | 12,731 | 9,443 | 297 | 645 | 16 | 50 |
| North Dakota | 5,214 | 2,476 | 1,532 | 979 | 53 | 174 | – | – |
| South Dakota | 4,838 | 2,465 | 1,438 | 687 | 38 | 198 | – | 12 |
| Nebraska | 14,163 | 5,767 | 4,620 | 3,130 | 151 | 411 | 24 | 60 |
| Kansas | 22,096 | 7,998 | 7,123 | 6,556 | 177 | 218 | – | 24 |
| **West North Central** | **144,961** | **57,761** | **38,370** | **44,922** | **1,177** | **2,444** | **40** | **247** |
| Delaware | 5,750 | 1,701 | 1,285 | 2,724 | 36 | – | – | 4 |
| Maryland and D.C. | 41,835 | 13,302 | 11,396 | 16,380 | 325 | 12 | 364 | 56 |
| Virginia | 48,215 | 19,564 | 12,492 | 10,872 | 234 | 4,957 | 24 | 72 |
| West Virginia | 20,856 | 6,478 | 3,677 | 10,612 | 65 | 24 | – | – |
| North Carolina | 62,820 | 24,767 | 14,268 | 22,558 | 259 | 908 | – | 60 |
| South Carolina | 37,795 | 12,956 | 7,517 | 16,474 | 96 | 728 | – | 24 |
| Georgia | 51,711 | 20,664 | 12,225 | 18,321 | 302 | 128 | 57 | 14 |
| Florida | 90,596 | 44,680 | 25,274 | 17,737 | 585 | 2,157 | – | 163 |
| **South Atlantic** | **359,578** | **144,112** | **88,134** | **115,678** | **1,902** | **8,914** | **445** | **393** |
| Kentucky | 51,696 | 13,807 | 11,258 | 24,734 | 221 | 1,640 | – | 36 |
| Tennessee | 72,056 | 25,602 | 4,546 | 40,887 | 769 | 23 | – | 229 |
| Alabama | 51,907 | 17,178 | 7,285 | 27,074 | 267 | 24 | – | 79 |
| Mississippi | 23,707 | 9,897 | 5,078 | 8,104 | 200 | 392 | – | 36 |
| **East South Central** | **199,366** | **66,484** | **28,167** | **100,799** | **1,457** | **2,079** | **–** | **380** |
| Arkansas | 23,030 | 8,633 | 5,067 | 8,820 | 86 | 400 | 12 | 12 |
| Louisiana | 59,444 | 17,820 | 10,306 | 27,584 | 301 | 1,478 | – | 1,955 |
| Oklahoma | 31,093 | 12,390 | 8,306 | 8,670 | 144 | 1,571 | – | 12 |
| Texas | 177,945 | 57,281 | 42,439 | 73,895 | 891 | 3,283 | – | 156 |
| **West South Central** | **291,512** | **96,124** | **66,118** | **118,969** | **1,422** | **6,732** | **12** | **2,135** |
| Montana | 10.761 | 2,817 | 2,095 | 5,681 | 60 | 96 | – | 12 |
| Idaho | 15,388 | 4,962 | 4,137 | 6,019 | 48 | 222 | – | – |
| Wyoming | 6,718 | 1,370 | 2,347 | 2,932 | 14 | 42 | – | 13 |
| Colorado | 21,198 | 6,816 | 8,312 | 5,411 | 187 | 376 | – | 96 |
| New Mexico | 9,331 | 2,498 | 3,749 | 2,475 | 49 | 509 | – | 51 |
| Arizona | 26,173 | 9,467 | 8,540 | 7,293 | 132 | 640 | – | 101 |
| Utah | 10,903 | 3,197 | 3,162 | 4,037 | 65 | 442 | – | – |
| Nevada | 9,446 | 3,416 | 1,735 | 4,021 | 72 | 118 | – | 84 |
| **Mountain** | **109,918** | **34,543** | **34,077** | **37,869** | **627** | **2,445** | **–** | **357** |
| Washington | 74,181 | 25,979 | 13,326 | 32,479 | 297 | 961 | 12 | 1,127 |
| Oregon | 37,936 | 13,520 | 9,706 | 14,443 | 180 | 52 | – | 35 |
| California | 164,496 | 51,624 | 53,526 | 49,334 | 1,688 | 6,875 | 301 | 1,148 |
| **Pacific** | **276,613** | **91,123** | **76,558** | **96,256** | **2,165** | **7,888** | **313** | **2,310** |
| Alaska | 2,795 | 1,292 | 1,352 | 60 | 9 | 82 | – | – |
| Hawaii | 6,325 | 1,846 | 1,390 | 3,017 | 72 | – | – | – |
| **Alaska & Hawaii** | **9,120** | **3,138** | **2,742** | **3,077** | **81** | **82** | **–** | **–** |

# TABLE 42
## ENERGY SALES — INVESTOR-OWNED ELECTRIC UTILITIES
### BY STATE AND CLASSES OF SERVICE
### YEAR 1980 — KILOWATT-HOURS IN MILLIONS

| Division/State | Total to Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **1,613,664** | **532,102** | **408,273** | **623,510** | **10,678** | **34,359** | **2,156** | **2,586** |
| Maine | 7,753 | 2,936 | 1,519 | 3,103 | 60 | 135 | — | — |
| New Hampshire | 5,650 | 2,258 | 979 | 2,341 | 26 | 46 | — | — |
| Vermont | 3,028 | 1,293 | 561 | 1,054 | 11 | 109 | — | — |
| Massachusetts | 29,098 | 10,329 | 10,728 | 7,361 | 350 | 275 | 55 | — |
| Rhode Island | 5,068 | 1,827 | 1,673 | 1,402 | 66 | 100 | — | — |
| Connecticut | 20,287 | 7,958 | 6,569 | 5,538 | 222 | — | — | — |
| **New England** | **70,884** | **26,601** | **22,029** | **20,799** | **735** | **665** | **55** | **—** |
| New York | 90,669 | 29,851 | 32,404 | 25,060 | 661 | 2,491 | 170 | 32 |
| New Jersey | 49,180 | 16,206 | 16,363 | 16,158 | 416 | — | 8 | 29 |
| Pennsylvania | 97,426 | 30,239 | 19,898 | 45,636 | 550 | 222 | 824 | 57 |
| **Middle Atlantic** | **237,275** | **76,296** | **68,665** | **86,854** | **1,627** | **2,713** | **1,002** | **118** |
| Ohio | 106,916 | 29,729 | 20,673 | 52,824 | 613 | 3,011 | 49 | 17 |
| Indiana | 47,734 | 14,504 | 8,775 | 23,957 | 318 | 139 | 12 | 29 |
| Illinois | 90,667 | 26,270 | 24,143 | 34,073 | 681 | 5,136 | 364 | — |
| Michigan | 61,974 | 19,969 | 13,289 | 27,527 | 413 | 687 | — | 89 |
| Wisconsin | 32,164 | 10,998 | 8,329 | 12,052 | 418 | 353 | — | 14 |
| **East North Central** | **339,455** | **101,470** | **75,209** | **150,433** | **2,443** | **9,326** | **425** | **149** |
| Minnesota | 24,317 | 6,330 | 3,456 | 13,998 | 198 | 318 | — | 17 |
| Iowa | 19,186 | 6,387 | 4,367 | 7,984 | 178 | 270 | — | — |
| Missouri | 30,634 | 11,597 | 10,198 | 8,167 | 237 | 435 | — | — |
| North Dakota | 3,075 | 1,295 | 706 | 931 | 53 | 90 | — | — |
| South Dakota | 2,481 | 1,017 | 858 | 555 | 26 | 25 | — | — |
| Nebraska | — | — | — | — | — | — | — | — |
| Kansas | 15,909 | 5,703 | 4,845 | 5,076 | 141 | 144 | — | — |
| **West North Central** | **95,602** | **32,329** | **24,430** | **36,711** | **833** | **1,282** | **—** | **17** |
| Delaware | 4,824 | 1,256 | 1,081 | 2,459 | 24 | — | — | 4 |
| Maryland and D.C. | 40,146 | 12,351 | 10,792 | 16,259 | 312 | 12 | 364 | 56 |
| Virginia | 43,390 | 16,694 | 11,218 | 10,335 | 198 | 4,921 | 24 | — |
| West Virginia | 20,772 | 6,430 | 3,665 | 10,588 | 65 | 24 | — | — |
| North Carolina | 50,537 | 17,627 | 11,757 | 20,180 | 199 | 774 | — | — |
| South Carolina | 29,659 | 8,741 | 5,761 | 14,708 | 72 | 365 | — | 12 |
| Georgia | 39,357 | 12,125 | 9,765 | 17,090 | 252 | 68 | 57 | — |
| Florida | 73,566 | 35,884 | 20,683 | 14,432 | 449 | 2,028 | — | 90 |
| **South Atlantic** | **302,251** | **111,108** | **74,722** | **106,051** | **1,571** | **8,192** | **445** | **162** |
| Kentucky | 25,393 | 7,739 | 3,656 | 12,251 | 137 | 1,598 | — | 12 |
| Tennessee | 1,140 | 506 | 215 | 396 | — | 23 | — | — |
| Alabama | 29,649 | 9,510 | 5,514 | 14,498 | 127 | — | — | — |
| Mississippi | 13,002 | 4,577 | 3,208 | 4,757 | 92 | 368 | — | — |
| **East South Central** | **69,184** | **22,332** | **12,593** | **31,902** | **356** | **1,989** | **—** | **12** |
| Arkansas | 18,263 | 5,777 | 3,783 | 8,277 | 74 | 352 | — | — |
| Louisiana | 53,332 | 14,148 | 8,651 | 26,967 | 265 | 1,382 | — | 1,919 |
| Oklahoma | 24,386 | 9,194 | 6,008 | 7,541 | 120 | 1,523 | — | — |
| Texas | 152,176 | 45,384 | 34,203 | 68,792 | 711 | 3,086 | — | — |
| **West South Central** | **248,157** | **74,503** | **52,645** | **111,577** | **1,170** | **6,343** | **—** | **1,919** |
| Montana | 6,159 | 1,931 | 1,590 | 2,506 | 60 | 60 | — | 12 |
| Idaho | 13,776 | 4,306 | 3,493 | 5,941 | 36 | — | — | — |
| Wyoming | 4,582 | 846 | 837 | 2,872 | 14 | — | — | 13 |
| Colorado | 14,570 | 4,337 | 5,371 | 4,370 | 139 | 352 | — | 1 |
| New Mexico | 6,934 | 1,890 | 2,144 | 2,399 | 49 | 425 | — | 27 |
| Arizona | 15,172 | 5,126 | 4,964 | 4,734 | 87 | 261 | — | — |
| Utah | 8,893 | 2,561 | 2,105 | 3,768 | 53 | 406 | — | — |
| Nevada | 7,978 | 3,280 | 1,359 | 3,149 | 72 | 118 | — | — |
| **Mountain** | **78,064** | **24,277** | **21,863** | **29,739** | **510** | **1,622** | **—** | **53** |
| Washington | 19,875 | 10,826 | 5,385 | 3,562 | 102 | — | — | — |
| Oregon | 24,307 | 10,129 | 6,966 | 7,054 | 144 | 2 | — | 12 |
| California | 122,102 | 40,301 | 42,325 | 35,799 | 1,115 | 2,189 | 229 | 144 |
| **Pacific** | **166,284** | **61,256** | **54,676** | **46,415** | **1,361** | **2,191** | **229** | **156** |
| Alaska | 183 | 84 | 51 | 12 | — | 36 | — | — |
| Hawaii | 6,325 | 1,846 | 1,390 | 3,017 | 72 | — | — | — |
| **Alaska & Hawaii** | **6,508** | **1,930** | **1,441** | **3,029** | **72** | **36** | **—** | **—** |

# TABLE 43
# ENERGY SALES — TOTAL ELECTRIC UTILITY INDUSTRY
## BY MONTH AND CLASSES OF SERVICE
## 1977– 1980 — KILOWATT-HOURS IN MILLIONS

| Year – Month | Total to Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **YEAR – 1980** | | | | | | | | |
| January ..... | 178,398 | 65,162 | 41,226 | 65,529 | 1,342 | 4,240 | 371 | 528 |
| February .... | 178,942 | 64,750 | 41,303 | 66,570 | 1,266 | 4,159 | 371 | 523 |
| March ...... | 175,559 | 61,448 | 40,777 | 67,180 | 1,247 | 4,006 | 365 | 536 |
| April ........ | 164,709 | 53,858 | 38,753 | 66,142 | 1,177 | 3,887 | 356 | 536 |
| May ........ | 157,655 | 48,502 | 38,315 | 65,062 | 1,135 | 3,753 | 347 | 541 |
| June ........ | 165,589 | 53,121 | 41,751 | 64,899 | 1,105 | 3,849 | 341 | 523 |
| July ......... | 182,155 | 65,867 | 46,458 | 63,715 | 1,104 | 4,126 | 349 | 536 |
| August ...... | 192,878 | 72,185 | 48,857 | 65,600 | 1,143 | 4,175 | 355 | 563 |
| September .. | 188,172 | 66,875 | 47,408 | 67,577 | 1,179 | 4,243 | 348 | 542 |
| October .... | 171,177 | 55,538 | 42,475 | 66,987 | 1,249 | 4,021 | 357 | 550 |
| November .. | 165,223 | 53,199 | 40,355 | 65,649 | 1,284 | 3,829 | 351 | 556 |
| December .. | 174,876 | 60,279 | 41,869 | 66,331 | 1,335 | 4,138 | 381 | 543 |
| **Total .....** | **2,095,333** | **720,784** | **509,547** | **791,241** | **14,566** | **48,426** | **4,292** | **6,477** |
| **YEAR – 1979** | | | | | | | | |
| January ..... | 182,796 | 68,345 | 41,615 | 66,261 | 1,358 | 4,177 | 403 | 637 |
| February .... | 181,251 | 67,625 | 41,478 | 65,810 | 1,262 | 4,153 | 364 | 559 |
| March ...... | 174,298 | 60,498 | 40,065 | 67,475 | 1,245 | 3,916 | 376 | 723 |
| April ........ | 164,615 | 52,745 | 37,970 | 67,849 | 1,193 | 3,778 | 345 | 735 |
| May ........ | 161,951 | 48,493 | 38,260 | 69,148 | 1,159 | 3,789 | 361 | 741 |
| June ........ | 168,539 | 51,444 | 41,307 | 69,612 | 1,105 | 4,168 | 335 | 568 |
| July ......... | 177,453 | 58,470 | 43,952 | 68,698 | 1,124 | 4,292 | 337 | 580 |
| August ...... | 186,227 | 63,944 | 45,792 | 69,959 | 1,156 | 4,447 | 346 | 583 |
| September .. | 179,540 | 60,093 | 44,006 | 68,926 | 1,210 | 4,344 | 342 | 619 |
| October .... | 167,594 | 51,824 | 40,593 | 68,736 | 1,260 | 4,256 | 344 | 581 |
| November .. | 164,580 | 52,044 | 38,801 | 67,483 | 1,319 | 4,053 | 343 | 537 |
| December .. | 170,377 | 58,741 | 39,655 | 65,629 | 1,364 | 4,108 | 349 | 531 |
| **Total .....** | **2,079,221** | **694,266** | **493,494** | **815,586** | **14,755** | **49,481** | **4,245** | **7,394** |
| **YEAR – 1978** | | | | | | | | |
| January ..... | 174,427 | 64,624 | 39,922 | 63,364 | 1,397 | 4,137 | 401 | 582 |
| February .... | 169,924 | 64,284 | 39,498 | 59,724 | 1,258 | 4,172 | 421 | 567 |
| March ...... | 164,064 | 59,282 | 38,467 | 60,150 | 1,227 | 3,978 | 377 | 583 |
| April ........ | 153,146 | 49,722 | 36,001 | 61,706 | 1,170 | 3,643 | 336 | 568 |
| May ........ | 153,774 | 46,742 | 36,249 | 65,043 | 1,119 | 3,719 | 316 | 586 |
| June ........ | 165,403 | 51,533 | 40,365 | 67,449 | 1,101 | 4,005 | 353 | 597 |
| July ......... | 176,403 | 60,265 | 44,071 | 65,894 | 1,129 | 4,103 | 335 | 606 |
| August ...... | 181,386 | 62,366 | 44,918 | 67,819 | 1,168 | 4,173 | 344 | 598 |
| September .. | 180,454 | 60,884 | 44,206 | 68,998 | 1,218 | 4,201 | 342 | 605 |
| October .... | 167,669 | 52,555 | 40,144 | 68,723 | 1,285 | 4,009 | 344 | 609 |
| November .. | 160,614 | 49,440 | 37,700 | 67,247 | 1,330 | 3,913 | 370 | 614 |
| December .. | 170,554 | 57,459 | 39,207 | 66,024 | 1,401 | 5,456 | 397 | 610 |
| **Total .....** | **2,017,818** | **679,156** | **480,748** | **782,141** | **14,803** | **49,509** | **4,336** | **7,125** |
| **YEAR – 1977** | | | | | | | | |
| January ..... | 170,277 | 64,516 | 39,133 | 60,314 | 1,376 | 3,982 | 402 | 554 |
| February .... | 165,226 | 61,705 | 37,946 | 59,493 | 1,241 | 3,815 | 450 | 576 |
| March ...... | 156,887 | 52,685 | 36,222 | 62,043 | 1,185 | 3,837 | 334 | 581 |
| April ........ | 150,348 | 47,118 | 35,340 | 62,135 | 1,128 | 3,709 | 331 | 587 |
| May ........ | 149,703 | 44,086 | 35,956 | 63,894 | 1,114 | 3,729 | 327 | 597 |
| June ........ | 160,171 | 49,481 | 39,511 | 65,493 | 1,074 | 3,706 | 335 | 571 |
| July ......... | 172,697 | 59,748 | 43,380 | 63,584 | 1,098 | 3,980 | 331 | 576 |
| August ...... | 176,889 | 61,541 | 44,345 | 64,970 | 1,123 | 4,009 | 332 | 569 |
| September .. | 171,974 | 57,687 | 43,067 | 65,140 | 1,163 | 3,977 | 329 | 611 |
| October .... | 160,715 | 50,599 | 39,296 | 64,650 | 1,244 | 3,841 | 322 | 763 |
| November .. | 153,250 | 47,568 | 36,725 | 62,973 | 1,313 | 3,741 | 348 | 582 |
| December .. | 162,654 | 55,611 | 38,306 | 62,479 | 1,359 | 3,916 | 371 | 612 |
| **Total .....** | **1,950,791** | **652,345** | **469,227** | **757,168** | **14,418** | **46,242** | **4,212** | **7,179** |

# TABLE 44
## AVERAGE KWHR USE PER CUSTOMER

### TOTAL ELECTRIC UTILITY INDUSTRY

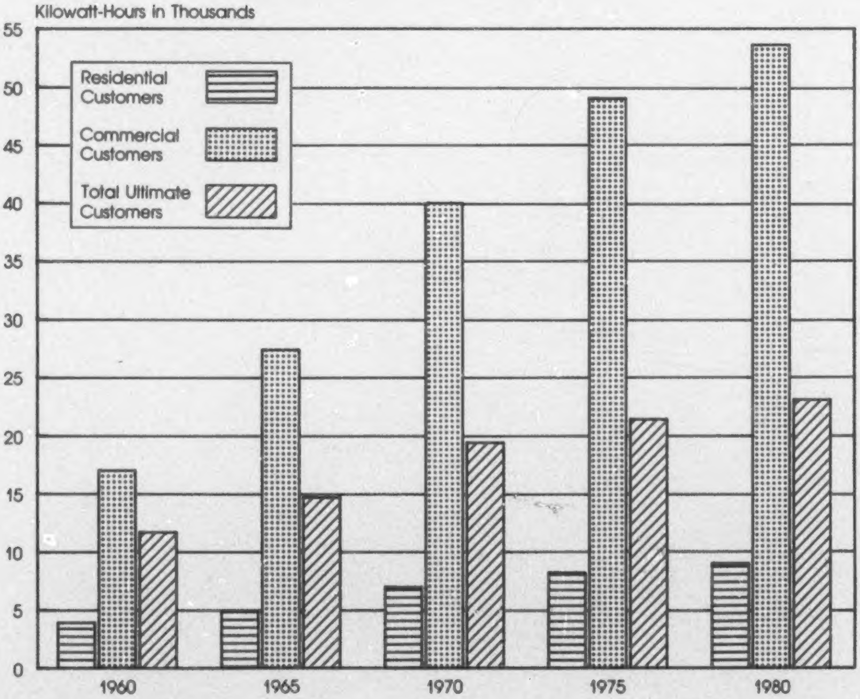
| Year | Residential | Commercial | Total Ultimate Customers |
|---|---|---|---|
| **1980** | **8,976** | **53,646** | **23,135** |
| 1979 | 8,833 | 53,135 | 23,454 |
| 1978 | 8,849 | 53,085 | 23,315 |
| 1977 | 8,693 | 52,892 | 23,052 |
| 1976 | 8,360 | 50,733 | 22,361 |
| 1975 | 8,176 | 48,964 | 21,417 |
| 1974 | 7,907 | 46,557 | 21,448 |
| 1973 | 8,079 | 47,580 | 21,955 |
| 1972 | 7,691 | 44,496 | 20,964 |
| 1971 | 7,380 | 41,943 | 19,956 |
| 1970 | 7,066 | 39,952 | 19,380 |
| 1969 | 6,571 | 36,950 | 18,563 |
| 1968 | 6,057 | 34,637 | 17,445 |
| 1967 | 5,577 | 32,041 | 16,384 |
| 1966 | 5,265 | 30,133 | 15,678 |
| 1965 | 4,933 | 27,399 | 14,694 |
| 1964 | 4,703 | 25,213 | 14,015 |
| 1963 | 4,442 | 23,224 | 13,366 |
| 1962 | 4,259 | 20,733 | 12,763 |
| 1961 | 4,019 | 19,709 | 12,099 |
| 1960 | 3,854 | 17,006 | 11,704 |

### INVESTOR-OWNED ELECTRIC UTILITIES

| Year | Residential | Commercial | Total Ultimate Customers |
|---|---|---|---|
| **1980** | **8,539** | **55,205** | **22,945** |
| 1979 | 8,360 | 54,594 | 23,287 |
| 1978 | 8,430 | 54,653 | 23,197 |
| 1977 | 8,279 | 54,520 | 22,938 |
| 1976 | 7,969 | 52,560 | 22,263 |
| 1975 | 7,855 | 50,966 | 21,305 |
| 1974 | 7,574 | 48,426 | 21,343 |
| 1973 | 7,769 | 49,550 | 21,989 |
| 1972 | 7,413 | 46,565 | 21,002 |
| 1971 | 7,062 | 43,596 | 19,917 |
| 1970 | 6,720 | 41,272 | 19,167 |
| 1969 | 6,253 | 38,025 | 18,305 |
| 1968 | 5,727 | 35,549 | 17,159 |
| 1967 | 5,241 | 32,492 | 15,930 |
| 1966 | 4,962 | 30,671 | 15,287 |
| 1965 | 4,647 | 27,958 | 14,347 |
| 1964 | 4,416 | 25,518 | 13,628 |
| 1963 | 4,173 | 23,444 | 12,913 |
| 1962 | 3,960 | 20,902 | 12,292 |
| 1961 | 3,747 | 19,849 | 11,641 |
| 1960 | 3,596 | 18,061 | 11,250 |

Based on sales data in Tables 38 and 39, and average number of customers per period.

## Chart VI-C
## AVERAGE KILOWATT-HOURS USED
### TOTAL ELECTRIC UTILITY INDUSTRY



Based on sales data in Table 38, page 43, and average number of customers per period.

# CUSTOMERS

## SECTION VII

### TABLE 47

### ULTIMATE CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY

### BY YEARS AND CLASSES OF SERVICE AT DECEMBER 31st

| Year | Total Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **1980** | **91,743,697** | **81,339,057** | **9,616,337** | **485,239** | **140,241** | **157,773** | **30** | **5,020** |
| 1979 | 89,514,241 | 79,391,583 | 9,359,622 | 476,502 | 123,871 | 157,644 | 30 | 4,989 |
| 1978 | 87,667,954 | 77,775,667 | 9,148,399 | 464,637 | 121,899 | 152,439 | 30 | 4,883 |
| 1977 | 85,590,212 | 75,923,145 | 8,943,732 | 448,009 | 120,594 | 149,934 | 28 | 4,770 |
| 1976 | 83,613,161 | 74,161,846 | 8,750,949 | 427,403 | 119,130 | 148,867 | 28 | 4,938 |
| 1975 | 81,844,890 | 72,570,187 | 8,591,108 | 414,665 | 116,555 | 147,387 | 29 | 4,959 |
| 1974 | 80,102,390 | 70,949,607 | 8,472,817 | 422,736 | 112,477 | 139,480 | 29 | 5,244 |
| 1973 | 78,461,251 | 69,438,429 | 8,361,847 | 413,383 | 108,787 | 133,619 | 46 | 5,140 |
| 1972 | 76,150,204 | 67,314,000 | 8,200,033 | 369,952 | 103,874 | 157,461 | 50 | 4,834 |
| 1971 | 74,265,071 | 65,650,046 | 8,002,572 | 355,967 | 96,252 | 155,414 | 48 | 4,772 |
| 1970 | 72,484,978 | 64,017,662 | 7,865,073 | 352,993 | 92,052 | 152,706 | 47 | 4,445 |
| 1969 | 70,929,138 | 62,598,910 | 7,744,851 | 348,648 | 86,678 | 145,071 | 49 | 4,931 |
| 1968 | 69,716,013 | 61,439,030 | 7,706,779 | 333,650 | 86,023 | 146,257 | 64 | 4,210 |
| 1967 | 68,167,525 | 60,033,404 | 7,579,626 | 324,222 | 82,445 | 143,870 | 65 | 3,893 |
| 1966 | 66,909,793 | 58,826,283 | 7,536,066 | 316,098 | 85,197 | 141,703 | 65 | 4,381 |
| 1965 | 65,557,520 | 57,596,016 | 7,419,956 | 309,615 | 84,925 | 141,532 | 66 | 5,410 |
| 1964 | 64,148,656 | 56,307,195 | 7,293,997 | 318,168 | 83,729 | 139,549 | 83 | 5,935 |
| 1963 | 62,857,451 | 55,073,055 | 7,232,065 | 320,732 | 79,816 | 145,184 | 117 | 6,482 |
| 1962 | 61,323,917 | 53,649,362 | 6,980,960 | 441,394 | 79,363 | 167,053 | 118 | 5,667 |
| 1961 | 60,130,180 | 52,569,050 | 6,843,592 | 515,389 | 63,459 | 135,653 | 94 | 2,943 |
| 1960 | 58,869,766 | 51,446,472 | 6,759,902 | 453,582 | 53,545 | 154,630 | 73 | 1,562 |

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

## TABLE 48

# ULTIMATE CUSTOMERS – INVESTOR-OWNED ELECTRIC UTILITIES

### BY YEARS AND CLASSES OF SERVICE AT DECEMBER 31st

| Year | Total Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **1980** | **71,003,703** | **62,908,916** | **7,460,741** | **375,558** | **123,589** | **134,607** | **23** | **269** |
| 1979 | 69,581,540 | 61,676,402 | 7,290,125 | 372,407 | 108,149 | 134,171 | 23 | 263 |
| 1978 | 67,922,975 | 60,216,110 | 7,106,705 | 364,123 | 106,286 | 129,496 | 23 | 232 |
| 1977 | 66,294,706 | 58,770,646 | 6,942,201 | 349,563 | 105,442 | 126,611 | 21 | 222 |
| 1976 | 64,896,400 | 57,530,599 | 6,805,345 | 329,522 | 103,754 | 126,674 | 22 | 484 |
| 1975 | 63,650,468 | 56,409,122 | 6,690,374 | 322,429 | 101,937 | 126,100 | 23 | 483 |
| 1974 | 62,667,061 | 55,499,145 | 6,624,061 | 326,409 | 97,438 | 119,531 | 23 | 454 |
| 1973 | 61,435,986 | 54,370,297 | 6,531,953 | 324,236 | 94,682 | 114,315 | 24 | 479 |
| 1972 | 59,804,431 | 52,868,920 | 6,422,032 | 284,733 | 90,206 | 138,052 | 25 | 463 |
| 1971 | 58,204,164 | 51,415,155 | 6,294,907 | 274,329 | 86,714 | 132,573 | 25 | 461 |
| 1970 | 56,888,819 | 50,210,348 | 6,194,383 | 270,132 | 83,443 | 130,036 | 24 | 453 |
| 1969 | 55,714,225 | 49,134,168 | 6,111,945 | 265,331 | 78,903 | 123,399 | 25 | 454 |
| 1968 | 54,680,477 | 48,140,270 | 6,078,790 | 258,848 | 78,950 | 123,136 | 40 | 443 |
| 1967 | 53,560,415 | 47,115,644 | 5,994,228 | 255,375 | 75,419 | 119,263 | 41 | 445 |
| 1966 | 52,567,765 | 46,151,524 | 5,981,208 | 248,267 | 71,394 | 114,918 | 41 | 413 |
| 1965 | 51,505,592 | 45,166,904 | 5,911,683 | 242,818 | 68,421 | 115,303 | 43 | 420 |
| 1964 | 50,405,817 | 44,157,062 | 5,818,820 | 250,755 | 65,684 | 113,031 | 60 | 405 |
| 1963 | 49,312,316 | 43,141,839 | 5,739,739 | 252,250 | 60,631 | 117,387 | 65 | 405 |
| 1962 | 48,324,445 | 42,241,005 | 5,564,867 | 344,900 | 58,168 | 115,037 | 68 | 400 |
| 1961 | 47,387,717 | 41,384,226 | 5,440,519 | 394,449 | 54,818 | 113,394 | 50 | 261 |
| 1960 | 46,501,270 | 40,608,482 | 5,310,130 | 408,924 | 43,289 | 130,144 | 50 | 251 |

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

## TABLE 49

# CUSTOMERS IN PERCENT OF TOTAL – TOTAL ELECTRIC UTILITY INDUSTRY

### BY YEAR AND CLASSES OF SERVICE AT DECEMBER 31

| Year | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways* | Inter-departmental* |
|---|---|---|---|---|---|---|---|
| **1980** | **88.7%** | **10.5%** | **0.5%** | **0.1%** | **0.2%** | **0.0%** | **0.0%** |
| 1979 | 88.7 | 10.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1978 | 88.7 | 10.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1977 | 88.7 | 10.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1976 | 88.7 | 10.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1975 | 88.7 | 10.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1974 | 88.6 | 10.6 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1973 | 88.5 | 10.7 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1972 | 88.4 | 10.8 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1971 | 88.4 | 10.8 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1970 | 88.3 | 10.9 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1969 | 88.3 | 10.9 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1968 | 88.1 | 11.1 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1967 | 88.1 | 11.1 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1966 | 87.9 | 11.3 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1965 | 87.9 | 11.3 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1964 | 87.8 | 11.4 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1963 | 87.7 | 11.5 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1962 | 87.5 | 11.4 | 0.7 | 0.1 | 0.3 | 0.0 | 0.0 |
| 1961 | 87.4 | 11.4 | 0.9 | 0.1 | 0.2 | 0.0 | 0.0 |
| 1960 | 87.4 | 11.5 | 0.8 | 0.1 | 0.2 | 0.0 | 0.0 |

*Less than one-tenth of one percent.
Based on customer data in Table 47.

# TABLE 50
# ULTIMATE CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND CLASSES OF SERVICE AT DECEMBER 31, 1980

| Division/State | Total Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-depart-mental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **91,743,697** | **81,339,057** | **9,616,337** | **485,239** | **140,241** | **157,773** | **30** | **5,020** |
| Maine | 537,639 | 464,315 | 56,652 | 877 | 15,636 | 157 | – | 2 |
| New Hampshire | 413,882 | 363,601 | 46,931 | 1,565 | 1,240 | 544 | – | 1 |
| Vermont | 233,421 | 207,531 | 22,819 | 805 | 281 | 1,973 | – | 12 |
| Massachusetts | 2,215,142 | 1,986,981 | 209,055 | 11,249 | 3,820 | 2,948 | 1 | 1,088 |
| Rhode Island | 370,816 | 334,571 | 33,604 | 2,454 | 172 | 14 | – | 1 |
| Connecticut | 1,234,615 | 1,121,903 | 104,903 | 4,970 | 2,570 | 230 | 1 | 38 |
| **New England** | **5,005,515** | **4,478,902** | **473,964** | **21,920** | **23,719** | **5,866** | **2** | **1,142** |
| New York | 6,416,302 | 5,696,869 | 641,234 | 54,510 | 8,815 | 14,851 | 5 | 18 |
| New Jersey | 2,855,282 | 2,532,403 | 305,734 | 11,636 | 5,481 | 22 | 1 | 5 |
| Pennsylvania | 4,692,649 | 4,203,517 | 452,244 | 30,265 | 5,773 | 832 | 4 | 14 |
| **Middle Atlantic** | **13,964,233** | **12,432,789** | **1,399,212** | **96,411** | **20,069** | **15,705** | **10** | **37** |
| Ohio | 4,302,818 | 3,881,483 | 379,528 | 25,389 | 5,653 | 10,691 | 2 | 72 |
| Indiana | 2,209,986 | 1,983,271 | 206,047 | 17,331 | 2,048 | 1,261 | 1 | 27 |
| Illinois | 4,492,048 | 4,080,369 | 392,865 | 5,704 | 2,632 | 10,452 | 2 | 24 |
| Michigan | 3,715,100 | 3,375,119 | 322,325 | 13,925 | 1,942 | 1,760 | – | 29 |
| Wisconsin | 1,990,978 | 1,789,750 | 192,819 | 3,308 | 3,380 | 1,584 | – | 137 |
| **East North Central** | **16,710,930** | **15,109,992** | **1,493,584** | **65,657** | **15,655** | **25,748** | **5** | **289** |
| Minnesota | 1,711,245 | 1,531,181 | 165,514 | 7,314 | 3,698 | 3,472 | – | 66 |
| Iowa | 1,267,749 | 1,112,038 | 146,362 | 3,889 | 912 | 4,495 | – | 53 |
| Missouri | 2,122,621 | 1,888,473 | 217,903 | 9,108 | 2,232 | 4,801 | 1 | 103 |
| North Dakota | 283,700 | 244,410 | 36,773 | 1,321 | 585 | 603 | – | 8 |
| South Dakota | 303,122 | 263,724 | 37,830 | 720 | 333 | 496 | – | 19 |
| Nebraska | 711,016 | 597,865 | 106,524 | 1,767 | 581 | 4,217 | 1 | 61 |
| Kansas | 1,043,201 | 903,908 | 128,488 | 8,150 | 1,079 | 1,520 | – | 56 |
| **West North Central** | **7,442,654** | **6,541,599** | **839,394** | **32,269** | **9,420** | **19,604** | **2** | **366** |
| Delaware | 240,326 | 219,085 | 20,383 | 681 | 122 | 51 | – | 4 |
| Maryland and D.C. | 1,722,756 | 1,552,610 | 165,175 | 4,101 | 772 | 87 | 3 | 8 |
| Virginia | 2,011,214 | 1,808,900 | 179,387 | 3,529 | 1,524 | 17,861 | 1 | 12 |
| West Virginia | 796,484 | 706,420 | 79,913 | 8,816 | 874 | 460 | – | 1 |
| North Carolina | 2,473,172 | 2,165,788 | 286,963 | 12,228 | 5,544 | 2,579 | – | 70 |
| South Carolina | 1,243,458 | 1,091,867 | 144,346 | 3,412 | 2,180 | 1,632 | – | 21 |
| Georgia | 2,164,692 | 1,945,461 | 202,805 | 13,750 | 1,719 | 929 | 1 | 27 |
| Florida | 4,547,236 | 4,065,845 | 447,673 | 23,321 | 3,494 | 6,829 | – | 74 |
| **South Atlantic** | **15,199,338** | **13,555,976** | **1,526,645** | **69,838** | **16,229** | **30,428** | **5** | **217** |
| Kentucky | 1,459,281 | 1,288,329 | 152,221 | 7,689 | 3,913 | 7,107 | – | 22 |
| Tennessee | 1,887,534 | 1,686,220 | 180,946 | 18,198 | 2,098 | 49 | – | 23 |
| Alabama | 1,640,847 | 1,450,871 | 180,969 | 7,570 | 1,160 | 223 | – | 54 |
| Mississippi | 1,000,680 | 875,981 | 115,789 | 5,829 | 888 | 2,184 | – | 9 |
| **East South Central** | **5,988,342** | **5,301,401** | **629,925** | **39,286** | **8,059** | **9,563** | **–** | **108** |
| Arkansas | 987,580 | 867,809 | 103,081 | 13,254 | 503 | 2,924 | 1 | 8 |
| Louisiana | 1,675,979 | 1,484,679 | 168,989 | 12,813 | 2,045 | 7,414 | – | 39 |
| Oklahoma | 1,359,783 | 1,191,666 | 147,951 | 11,704 | 1,124 | 7,315 | – | 23 |
| Texas | 5,639,363 | 4,876,510 | 691,807 | 48,755 | 2,532 | 19,657 | – | 102 |
| **West South Central** | **9,662,705** | **8,420,664** | **1,111,828** | **86,526** | **6,204** | **37,310** | **1** | **172** |
| Montana | 367,030 | 309,813 | 53,188 | 2,385 | 1,447 | 147 | – | 50 |
| Idaho | 409,469 | 355,578 | 52,148 | 1,356 | 337 | 39 | – | 11 |
| Wyoming | 222,650 | 180,236 | 40,166 | 2,017 | 133 | 84 | – | 14 |
| Colorado | 1,257,436 | 1,096,323 | 154,846 | 4,721 | 556 | 831 | – | 159 |
| New Mexico | 504,994 | 430,461 | 69,649 | 3,742 | 102 | 947 | – | 93 |
| Arizona | 1,068,562 | 947,744 | 113,171 | 4,982 | 1,134 | 1,262 | – | 269 |
| Utah | 504,465 | 449,327 | 46,452 | 7,037 | 1,354 | 278 | – | 17 |
| Nevada | 347,259 | 309,968 | 36,824 | 198 | 221 | 45 | – | 3 |
| **Mountain** | **4,681,865** | **4,079,450** | **566,444** | **26,438** | **5,284** | **3,633** | **–** | **616** |
| Washington | 1,777,985 | 1,573,631 | 188,700 | 8,699 | 3,162 | 3,645 | 1 | 147 |
| Oregon | 1,197,090 | 1,019,063 | 173,449 | 1,960 | 2,206 | 392 | – | 20 |
| California | 9,669,857 | 8,443,321 | 1,155,512 | 35,493 | 28,351 | 5,340 | 3 | 1,837 |
| **Pacific** | **12,644,932** | **11,036,015** | **1,517,661** | **46,152** | **33,719** | **9,377** | **4** | **2,004** |
| Alaska | 144,021 | 123,952 | 19,002 | 68 | 390 | 539 | 1 | 69 |
| Hawaii | 299,162 | 258,317 | 38,678 | 674 | 1,493 | – | – | – |
| **Alaska & Hawaii** | **443,183** | **382,269** | **57,680** | **742** | **1,883** | **539** | **1** | **69** |

# TABLE 51
# ULTIMATE CUSTOMERS — INVESTOR-OWNED ELECTRIC UTILITIES
## BY STATE AND CLASSES OF SERVICE AT DECEMBER 31, 1980

| Division/State | Total Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-depart-mental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **71,003,703** | **62,908,916** | **7,460,741** | **375,558** | **123,589** | **134,607** | **23** | **269** |
| Maine | 512,517 | 442,468 | 53,596 | 746 | 15,618 | 89 | — | — |
| New Hampshire | 360,039 | 316,977 | 39,756 | 1,537 | 1,235 | 534 | — | — |
| Vermont | 182,215 | 161,560 | 17,851 | 679 | 261 | 1,864 | — | — |
| Massachusetts | 1,945,180 | 1,742,970 | 188,019 | 7,627 | 3,704 | 2,859 | 1 | — |
| Rhode Island | 368,004 | 331,988 | 33,391 | 2,442 | 170 | 13 | — | — |
| Connecticut | 1,183,413 | 1,076,847 | 99,322 | 4,707 | 2,536 | — | 1 | — |
| **New England** | **4,551,368** | **4,072,810** | **431,935** | **17,738** | **23,524** | **5,359** | **2** | **—** |
| New York | 6,287,470 | 5,584,026 | 627,122 | 53,124 | 8,730 | 14,461 | 4 | 3 |
| New Jersey | 2,805,698 | 2,488,233 | 300,606 | 11,389 | 5,468 | — | 1 | 1 |
| Pennsylvania | 4,471,186 | 3,998,959 | 436,183 | 29,622 | 5,702 | 714 | 4 | 2 |
| **Middle Atlantic** | **13,564,354** | **12,071,218** | **1,363,911** | **94,135** | **19,900** | **15,175** | **9** | **6** |
| Ohio | 3,816,710 | 3,437,925 | 341,192 | 21,604 | 5,613 | 10,369 | 2 | 5 |
| Indiana | 1,696,442 | 1,506,529 | 171,200 | 15,737 | 2,005 | 968 | 1 | 2 |
| Illinois | 4,126,524 | 3,746,206 | 362,667 | 4,781 | 2,595 | 10,271 | 2 | 2 |
| Michigan | 3,307,019 | 3,003,109 | 289,415 | 11,169 | 1,854 | 1,470 | — | 2 |
| Wisconsin | 1,661,119 | 1,490,039 | 164,370 | 2,450 | 3,163 | 1,078 | — | 19 |
| **East North Central** | **14,607,814** | **13,183,808** | **1,328,844** | **55,741** | **15,230** | **24,156** | **5** | **30** |
| Minnesota | 1,026,580 | 909,580 | 105,488 | 5,075 | 3,575 | 2,860 | — | 2 |
| Iowa | 916,771 | 791,217 | 117,916 | 2,614 | 856 | 4,168 | — | — |
| Missouri | 1,426,317 | 1,253,558 | 159,776 | 6,818 | 1,953 | 4,167 | — | 45 |
| North Dakota | 184,082 | 155,911 | 25,880 | 1,154 | 581 | 554 | — | 2 |
| South Dakota | 161,929 | 136,804 | 24,055 | 376 | 320 | 374 | — | — |
| Nebraska | — | — | — | — | — | — | — | — |
| Kansas | 687,601 | 604,803 | 74,252 | 6,312 | 1,008 | 1,214 | — | 12 |
| **West North Central** | **4,403,280** | **3,851,873** | **507,367** | **22,349** | **8,293** | **13,337** | **—** | **61** |
| Delaware | 177,779 | 161,462 | 15,709 | 489 | 118 | — | — | 1 |
| Maryland and D.C | 1,609,801 | 1,450,710 | 154,387 | 3,900 | 761 | 39 | 3 | 1 |
| Virginia | 1,703,477 | 1,527,505 | 153,760 | 3,090 | 1,500 | 17,621 | 1 | — |
| West Virginia | 788,422 | 699,069 | 79,244 | 8,786 | 873 | 450 | — | — |
| North Carolina | 1,684,893 | 1,449,609 | 218,672 | 9,134 | 5,428 | 2,031 | — | 19 |
| South Carolina | 804,019 | 690,981 | 106,192 | 3,139 | 2,112 | 1,584 | — | 11 |
| Georgia | 1,304,489 | 1,151,108 | 139,250 | 11,991 | 1,613 | 526 | 1 | — |
| Florida | 3,591,503 | 3,214,183 | 345,793 | 21,510 | 3,285 | 6,712 | — | 20 |
| **South Atlantic** | **11,664,383** | **10,344,627** | **1,213,007** | **62,039** | **15,690** | **28,963** | **5** | **52** |
| Kentucky | 857,268 | 747,924 | 93,312 | 5,441 | 3,636 | 6,953 | — | 2 |
| Tennessee | 33,877 | 30,334 | 3,257 | 119 | 118 | 49 | — | — |
| Alabama | 985,941 | 865,394 | 115,974 | 3,970 | 602 | — | — | 1 |
| Mississippi | 465,169 | 397,551 | 61,535 | 3,631 | 424 | 2,028 | — | — |
| **East South Central** | **2,342,255** | **2,041,203** | **274,078** | **13,161** | **4,780** | **9,030** | **—** | **3** |
| Arkansas | 633,214 | 546,466 | 70,799 | 12,683 | 491 | 2,775 | — | — |
| Louisiana | 1,270,456 | 1,121,059 | 128,418 | 11,762 | 2,007 | 7,208 | — | 2 |
| Oklahoma | 951,377 | 835,529 | 97,525 | 10,265 | 1,066 | 6,992 | — | — |
| Texas | 4,104,222 | 3,550,623 | 489,196 | 43,291 | 2,311 | 18,800 | — | 1 |
| **West South Central** | **6,959,269** | **6,053,677** | **785,938** | **78,001** | **5,875** | **35,775** | **—** | **3** |
| Montana | 277,172 | 234,733 | 38,478 | 2,380 | 1,435 | 133 | — | 13 |
| Idaho | 343,773 | 298,893 | 43,281 | 1,265 | 328 | 6 | — | — |
| Wyoming | 151,809 | 123,439 | 26,316 | 1,886 | 126 | 38 | — | 4 |
| Colorado | 849,633 | 754,293 | 90,059 | 4,203 | 377 | 679 | — | 22 |
| New Mexico | 362,617 | 318,139 | 39,798 | 3,652 | 96 | 871 | — | 61 |
| Arizona | 641,618 | 561,812 | 74,545 | 4,061 | 701 | 498 | — | 1 |
| Utah | 400,362 | 359,427 | 32,802 | 6,672 | 1,315 | 143 | — | 3 |
| Nevada | 326,795 | 293,847 | 32,631 | 144 | 143 | 30 | — | — |
| **Mountain** | **3,353,779** | **2,944,583** | **377,910** | **24,263** | **4,521** | **2,398** | **—** | **104** |
| Washington | 805,251 | 714,181 | 87,492 | 2,248 | 1,330 | — | — | — |
| Oregon | 955,518 | 810,514 | 141,445 | 1,388 | 2,099 | 67 | — | 5 |
| California | 7,482,735 | 6,549,864 | 908,234 | 3,818 | 20,779 | 34 | 1 | 5 |
| **Pacific** | **9,243,504** | **8,074,559** | **1,137,171** | **7,454** | **24,208** | **101** | **1** | **10** |
| Alaska | 14,535 | 12,241 | 1,902 | 3 | 75 | 313 | 1 | — |
| Hawaii | 299,162 | 258,317 | 38,678 | 674 | 1,493 | — | — | — |
| **Alaska & Hawaii** | **313,697** | **270,558** | **40,580** | **677** | **1,568** | **313** | **1** | **—** |

# TABLE 52
# AVERAGE NUMBER OF CUSTOMERS – TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND CERTAIN CLASSES OF SERVICE – YEAR 1980

| Division/State | Total Ultimate Customers | Residential | Commercial |
|---|---|---|---|
| **Total United States** | **90,571,147** | **80,302,943** | **9,498,306** |
| Maine | 524,360 | 460,667 | 56,783 |
| New Hampshire | 413,353 | 363,451 | 46,569 |
| Vermont | 230,021 | 204,357 | 22,568 |
| Massachusetts | 2,187,758 | 1,961,267 | 207,784 |
| Rhode Island | 368,490 | 332,458 | 33,453 |
| Connecticut | 1,228,897 | 1,116,229 | 104,859 |
| **New England** | **4,952,909** | **4,438,429** | **472,016** |
| New York | 6,396,655 | 5,677,491 | 648,915 |
| New Jersey | 2,851,124 | 2,526,276 | 307,203 |
| Pennsylvania | 4,660,494 | 4,173,214 | 449,412 |
| **Middle Atlantic** | **13,908,273** | **12,376,981** | **1,405,530** |
| Ohio | 4,275,260 | 3,855,405 | 378,493 |
| Indiana | 2,189,313 | 1,964,310 | 204,472 |
| Illinois | 4,469,890 | 4,060,924 | 390,141 |
| Michigan | 3,692,231 | 3,354,479 | 320,751 |
| Wisconsin | 1,964,282 | 1,765,563 | 190,501 |
| **East North Central** | **16,590,976** | **15,000,681** | **1,484,358** |
| Minnesota | 1,643,205 | 1,474,214 | 155,286 |
| Iowa | 1,253,318 | 1,098,986 | 145,095 |
| Missouri | 2,090,369 | 1,861,075 | 213,112 |
| North Dakota | 279,118 | 240,261 | 36,346 |
| South Dakota | 298,349 | 259,240 | 37,569 |
| Nebraska | 699,281 | 588,073 | 104,701 |
| Kansas | 1,028,197 | 891,587 | 126,094 |
| **West North Central** | **7,291,837** | **6,413,436** | **818,203** |
| Delaware | 237,273 | 216,204 | 20,187 |
| Maryland and D.C. | 1,697,734 | 1,529,628 | 163,257 |
| Virginia | 1,979,796 | 1,780,542 | 176,840 |
| West Virginia | 790,485 | 701,402 | 79,201 |
| North Carolina | 2,438,320 | 2,133,679 | 284,433 |
| South Carolina | 1,223,307 | 1,073,927 | 142,178 |
| Georgia | 2,127,951 | 1,912,457 | 199,150 |
| Florida | 4,427,352 | 3,957,053 | 438,273 |
| **South Atlantic** | **14,922,218** | **13,304,892** | **1,503,519** |
| Kentucky | 1,449,274 | 1,279,576 | 151,271 |
| Tennessee | 1,874,308 | 1,674,250 | 179,768 |
| Alabama | 1,625,049 | 1,436,786 | 179,265 |
| Mississippi | 989,526 | 866,036 | 114,615 |
| **East South Central** | **5,938,157** | **5,256,648** | **624,919** |
| Arkansas | 968,143 | 848,632 | 101,021 |
| Louisiana | 1,646,523 | 1,458,457 | 165,709 |
| Oklahoma | 1,337,071 | 1,172,081 | 145,333 |
| Texas | 5,502,434 | 4,755,688 | 675,770 |
| **West South Central** | **9,454,171** | **8,234,858** | **1,087,833** |
| Montana | 362,209 | 304,751 | 52,397 |
| Idaho | 409,432 | 350,543 | 55,897 |
| Wyoming | 217,225 | 175,941 | 39,094 |
| Colorado | 1,231,750 | 1,074,130 | 151,461 |
| New Mexico | 494,366 | 421,493 | 68,053 |
| Arizona | 1,035,104 | 917,330 | 110,193 |
| Utah | 496,880 | 441,559 | 45,838 |
| Nevada | 338,886 | 301,921 | 35,894 |
| **Mountain** | **4,585,852** | **3,987,668** | **558,827** |
| Washington | 1,749,527 | 1,547,948 | 185,444 |
| Oregon | 1,175,931 | 1,003,573 | 167,878 |
| California | 9,565,317 | 8,361,720 | 1,133,004 |
| **Pacific** | **12,490,775** | **10,913,241** | **1,486,326** |
| Alaska | 140,438 | 120,968 | 18,529 |
| Hawaii | 295,541 | 255,141 | 38,246 |
| **Alaska & Hawaii** | **435,979** | **376,109** | **56,775** |

# TABLE 53
# AVERAGE NUMBER OF CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
## BY STATE AND CERTAIN CLASSES OF SERVICE—YEAR 1980

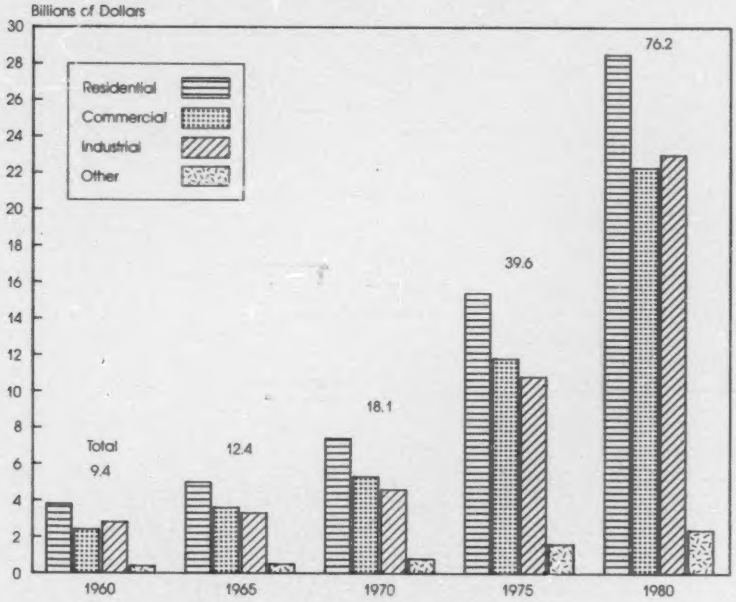
| Division/State | Total Ultimate Customers | Residential | Commercial |
|---|---|---|---|
| **Total United States** | **70,328,977** | **62,314,132** | **7,395,582** |
| Maine | 499,948 | 439,444 | 53,811 |
| New Hampshire | 361,077 | 318,162 | 39,597 |
| Vermont | 180,274 | 159,701 | 17,740 |
| Massachusetts | 1,918,514 | 1,718,442 | 186,211 |
| Rhode Island | 365,755 | 329,948 | 33,245 |
| Connecticut | 1,178,522 | 1,071,877 | 99,399 |
| **New England** | **4,504,090** | **4,037,574** | **430,003** |
| New York | 6,271,003 | 5,567,514 | 635,093 |
| New Jersey | 2,802,806 | 2,483,248 | 302,195 |
| Pennsylvania | 4,445,374 | 3,974,522 | 433,808 |
| **Middle Atlantic** | **13,519,183** | **12,025,284** | **1,371,096** |
| Ohio | 3,803,081 | 3,424,567 | 341,252 |
| Indiana | 1,690,059 | 1,500,842 | 170,590 |
| Illinois | 4,114,838 | 3,736,343 | 360,804 |
| Michigan | 3,295,195 | 2,992,649 | 288,094 |
| Wisconsin | 1,643,680 | 1,474,222 | 162,824 |
| **East North Central** | **14,546,853** | **13,128,623** | **1,323,564** |
| Minnesota | 1,018,619 | 902,316 | 104,947 |
| Iowa | 912,391 | 787,363 | 117,458 |
| Missouri | 1,410,784 | 1,241,379 | 156,459 |
| North Dakota | 182,349 | 154,298 | 25,762 |
| South Dakota | 161,197 | 135,958 | 24,186 |
| Nebraska | — | — | - |
| Kansas | 681,347 | 599,787 | 73,250 |
| **West North Central** | **4,366,687** | **3,821,101** | **502,062** |
| Delaware | 176,511 | 160,231 | 15,644 |
| Maryland and D.C. | 1,588,011 | 1,430,649 | 152,776 |
| Virginia | 1,679,662 | 1,506,109 | 151,846 |
| West Virginia | 782,648 | 694,260 | 78,548 |
| North Carolina | 1,671,315 | 1,436,807 | 218,002 |
| South Carolina | 796,459 | 684,537 | 105,114 |
| Georgia | 1,290,957 | 1,139,533 | 137,318 |
| Florida | 3,493,834 | 3,125,090 | 338,788 |
| **South Atlantic** | **11,479,397** | **10,177,216** | **1,198,036** |
| Kentucky | 859,336 | 750,078 | 93,570 |
| Tennessee | 33,660 | 30,157 | 3,288 |
| Alabama | 981,343 | 861,400 | 115,452 |
| Mississippi | 463,482 | 396,155 | 61,252 |
| **East South Central** | **2,337,821** | **2,037,790** | **273,562** |
| Arkansas | 623,927 | 536,502 | 69,660 |
| Louisiana | 1,252,619 | 1,105,264 | 126,297 |
| Oklahoma | 940,369 | 826,156 | 96,351 |
| Texas | 4,016,845 | 3,474,077 | 478,336 |
| **West South Central** | **6,833,760** | **5,941,999** | **770,644** |
| Montana | 274,921 | 231,822 | 38,106 |
| Idaho | 345,606 | 295,479 | 47,278 |
| Wyoming | 148,403 | 120,766 | 25,637 |
| Colorado | 834,374 | 740,873 | 88,269 |
| New Mexico | 356,062 | 312,391 | 39,055 |
| Arizona | 623,081 | 545,113 | 72,771 |
| Utah | 395,751 | 354,235 | 32,576 |
| Nevada | 318,998 | 286,260 | 31,818 |
| **Mountain** | **3,297,196** | **2,886,939** | **375,510** |
| Washington | 794,885 | 704,718 | 85,675 |
| Oregon | 940,439 | 799,494 | 137,468 |
| California | 7,399,001 | 6,486,362 | 887,867 |
| **Pacific** | **9,134,325** | **7,990,574** | **1,111,010** |
| Alaska | 14,124 | 11,891 | 1,849 |
| Hawaii | 295,541 | 255,141 | 38,246 |
| **Alaska & Hawaii** | **309,665** | **267,032** | **40,095** |

# REVENUES

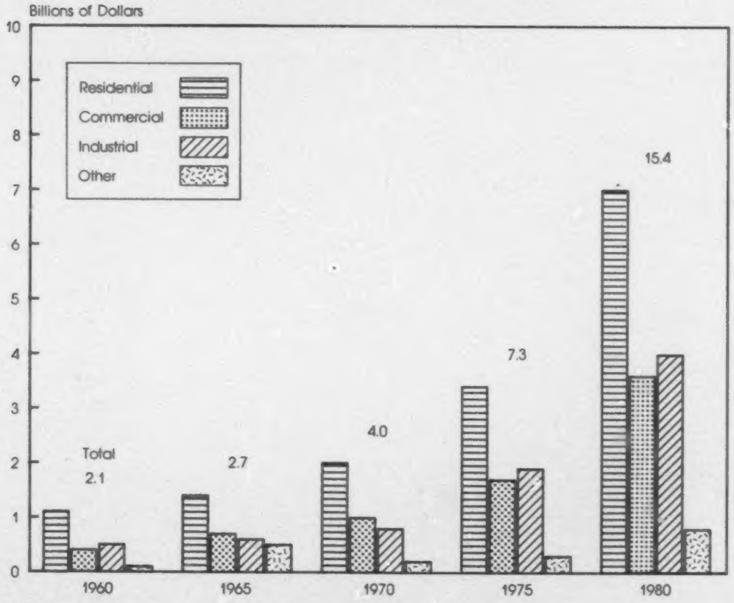
## SECTION VIII

### Chart VIII-A
### REVENUES FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 57.

# TABLE 56
# REVENUES — TOTAL ELECTRIC UTILITY INDUSTRY
## BY YEARS AND CLASSES OF SERVICE
## THOUSANDS OF DOLLARS

| Year | Total Revenue from Sales† | Exports to Canada and Mexico | Total from Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Interdepartmental |
|---|---|---|---|---|---|---|---|---|---|---|
| **1980** | **$91,657,515p** | **$38,843p** | **$91,618,672** | **$35,528,191** | **$25,961,312** | **$26,957,404** | **$1,030,484** | **$1,801,181** | **$207,338** | **$132,762** |
| 1979 | 77,699,615r | 8,121r | 77,691,494 | 30,045,071 | 21,719,562 | 23,242,493 | 895,690 | 1,480,205 | 184,012 | 124,461 |
| 1978 | 69,865,517r | 12,573r | 69,852,944 | 27,381,419 | 19,714,364 | 20,280,391 | 849,677 | 1,350,439 | 170,123 | 106,531 |
| 1977 | 62,629,713 | 19,684 | 62,610,029 | 24,687,500 | 18,021,548 | 17,629,321 | 776,771 | 1,245,155 | 145,680 | 104,054 |
| 1976 | 53,480,659 | 17,795 | 53,462,864 | 21,149,590 | 15,236,104 | 14,999,522 | 724,436 | 1,112,247 | 163,840 | 77,125 |
| 1975 | 46,864,685 | 11,229 | 46,853,456 | 18,803,156 | 13,486,624 | 12,707,490 | 659,332 | 975,799 | 159,160 | 61,895 |
| 1974 | 39,133,322 | 6,517 | 39,126,805 | 15,702,853 | 11,196,960 | 10,673,464 | 573,164 | 780,010 | 146,112 | 54,242 |
| 1973 | 31,668,281 | 5,422 | 31,662,859 | 13,194,773 | 9,147,188 | 8,073,636 | 491,831 | 620,991 | 91,903 | 42,537 |
| 1972 | 27,927,681 | 6,611 | 27,921,070 | 11,729,833 | 8,041,052 | 6,983,891 | 449,831 | 593,267 | 85,300 | 37,896 |
| 1971 | 24,735,122 | 9,963 | 24,725,159 | 10,483,526 | 7,071,971 | 6,133,964 | 411,534 | 512,772 | 77,862 | 33,530 |
| 1970 | 22,076,885 | 11,023 | 22,065,862 | 9,415,707 | 6,290,225 | 5,429,852 | 377,791 | 453,104 | 69,169 | 30,014 |
| 1969 | 20,144,225 | 4,876 | 20,139,349 | 8,532,729 | 5,704,764 | 5,044,857 | 350,563 | 417,571 | 62,981 | 25,884 |
| 1968 | 18,585,368 | 5,489 | 18,579,879 | 7,802,033 | 5,315,100 | 4,672,211 | 327,196 | 379,435 | 61,440 | 22,464 |
| 1967 | 17,226,235 | 3,515 | 17,222,720 | 7,183,908 | 4,935,911 | 4,364,759 | 307,272 | 349,323 | 60,609 | 20,938 |
| 1966 | 16,199,140 | 3,004 | 16,196,136 | 6,733,714 | 4,649,084 | 4,134,538 | 281,584 | 321,001 | 59,132 | 17,083 |
| 1965 | 15,162,538 | 4,159 | 15,158,379 | 6,328,756 | 4,312,859 | 3,884,748 | 262,569 | 290,892 | 60,903 | 17,652 |
| 1964 | 14,413,138 | 4,680 | 14,408,458 | 6,040,681 | 4,028,198 | 3,733,369 | 248,225 | 278,319 | 61,702 | 17,964 |
| 1963 | 13,708,178 | 10,972 | 13,697,206 | 5,722,544 | 3,788,316 | 3,596,121 | 236,448 | 275,030 | 61,749 | 16,998 |
| 1962 | 13,033,989 | 9,045 | 13,024,944 | 5,457,614 | 3,420,013 | 3,591,097 | 223,445 | 255,815 | 63,255 | 13,705 |
| 1961 | 12,177,388 | 8,085 | 12,169,303 | 5,115,799 | 3,168,055 | 3,369,749 | 205,411 | 232,319 | 62,872 | 15,098 |
| 1960 | 11,523,571 | 7,915 | 11,515,656 | 4,855,799 | 2,828,186 | 3,333,896 | 194,643 | 232,868 | 62,640 | 7,624 |

† Excludes other electric revenues.

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

p Preliminary. r Revised.

# TABLE 57
# REVENUES — INVESTOR-OWNED ELECTRIC UTILITIES
## BY YEARS AND CLASSES OF SERVICE
## THOUSANDS OF DOLLARS

| Year | Total Revenues | Other Revenues† | Total from Ultimate Customers | Residential | Commercial* | Industrial* | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Interdepartmental |
|---|---|---|---|---|---|---|---|---|---|---|
| **1980** | **$80,635,823** | **$4,452,720** | **$76,183,103** | **$28,496,095** | **$22,352,424** | **$22,973,190** | **$819,806** | **$1,362,153** | **$111,548** | **$67,887** |
| 1979 | 68,151,992 | 4,274,055 | 63,877,937 | 23,613,621 | 18,463,690 | 19,801,718 | 716,209 | 1,137,987 | 80,002 | 64,710 |
| 1978 | 61,298,846 | 3,683,472 | 57,615,374 | 21,623,578 | 16,784,764 | 17,379,313 | 682,895 | 1,016,671 | 74,772 | 53,381 |
| 1977 | 55,141,656 | 3,364,784 | 51,776,872 | 19,541,802 | 15,404,917 | 15,092,313 | 632,154 | 964,452 | 90,263 | 50,971 |
| 1976 | 47,079,734 | 2,599,312 | 44,480,422 | 16,920,314 | 13,137,482 | 12,688,950 | 612,674 | 935,116 | 150,173 | 35,713 |
| 1975 | 41,855,398 | 2,285,281 | 39,570,117 | 15,434,811 | 11,766,583 | 10,785,231 | 558,554 | 841,853 | 157,539 | 25,546 |
| 1974 | 34,970,201 | 1,784,436 | 33,185,765 | 12,881,369 | 9,737,585 | 9,243,172 | 485,472 | 670,971 | 144,837 | 22,359 |
| 1973 | 27,525,926 | 1,208,947 | 26,316,979 | 10,590,178 | 7,807,644 | 6,875,953 | 412,921 | 522,826 | 90,753 | 16,704 |
| 1972 | 24,132,546 | 1,011,942 | 23,120,604 | 9,359,949 | 6,832,630 | 5,950,367 | 378,413 | 502,910 | 84,144 | 12,191 |
| 1971 | 21,230,373 | 835,581 | 20,394,792 | 8,308,330 | 6,016,096 | 5,199,601 | 347,972 | 435,949 | 76,701 | 10,143 |
| 1970 | 18,830,214 | 722,994 | 18,107,220 | 7,424,224 | 5,314,447 | 4,591,093 | 319,373 | 381,405 | 68,030 | 8,648 |
| 1969 | 17,163,515 | 647,843 | 16,515,672 | 6,722,985 | 4,804,558 | 4,274,968 | 296,028 | 347,078 | 61,855 | 8,200 |
| 1968 | 15,809,534 | 577,493 | 15,232,041 | 6,142,073 | 4,471,545 | 3,961,473 | 276,010 | 313,231 | 60,295 | 7,414 |
| 1967 | 14,568,786 | 513,147 | 14,055,639 | 5,639,111 | 4,125,734 | 3,679,635 | 258,324 | 286,898 | 59,358 | 6,579 |
| 1966 | 13,772,851 | 488,777 | 13,284,074 | 5,308,626 | 3,906,604 | 3,497,745 | 240,978 | 266,626 | 58,006 | 5,489 |
| 1965 | 12,886,621 | 450,470 | 12,436,151 | 4,972,016 | 3,627,566 | 3,297,495 | 226,297 | 247,918 | 59,772 | 5,087 |
| 1964 | 12,211,203 | 428,384 | 11,782,819 | 4,728,561 | 3,366,885 | 3,173,671 | 213,703 | 234,522 | 60,554 | 4,923 |
| 1963 | 11,576,560 | 403,007 | 11,173,553 | 4,483,310 | 3,156,425 | 3,037,825 | 202,198 | 228,045 | 60,764 | 4,986 |
| 1962 | 10,971,558 | 378,476 | 10,593,082 | 4,244,163 | 2,841,601 | 3,036,987 | 191,298 | 212,161 | 62,875 | 3,997 |
| 1961 | 10,301,256 | 352,177 | 9,949,079 | 3,995,657 | 2,617,599 | 2,889,704 | 180,594 | 198,843 | 62,421 | 4,261 |
| 1960 | 9,737,675 | 305,720 | 9,431,955 | 3,786,453 | 2,386,470 | 2,824,536 | 166,305 | 202,804 | 62,084 | 3,303 |

† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

# TABLE 58
# REVENUES IN PERCENT OF TOTAL — TOTAL ELECTRIC UTILITY INDUSTRY
## BY YEARS AND CLASSES OF SERVICE

| Year | Residential | Commercial | Industrial | Street & Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|
| **1980** | **38.8%** | **28.3%** | **29.4%** | **1.1%** | **2.0%** | **0.2%** | **0.2%** |
| 1979 | 38.7 | 28.0 | 29.9 | 1.1 | 1.9 | 0.2 | 0.2 |
| 1978 | 39.2 | 28.2 | 29.0 | 1.2 | 1.9 | 0.3 | 0.2 |
| 1977 | 39.4 | 28.8 | 28.2 | 1.2 | 2.0 | 0.2 | 0.2 |
| 1976 | 39.6 | 28.5 | 28.0 | 1.4 | 2.1 | 0.3 | 0.1 |
| 1975 | 40.1 | 28.8 | 27.1 | 1.4 | 2.1 | 0.4 | 0.1 |
| 1974 | 40.1 | 28.6 | 27.3 | 1.5 | 2.0 | 0.4 | 0.1 |
| 1973 | 41.6 | 28.9 | 25.5 | 1.6 | 2.0 | 0.3 | 0.1 |
| 1972 | 42.0 | 28.8 | 25.0 | 1.6 | 2.1 | 0.3 | 0.2 |
| 1971 | 42.4 | 28.6 | 24.8 | 1.7 | 2.1 | 0.3 | 0.1 |
| 1970 | 42.7 | 28.5 | 24.6 | 1.7 | 2.1 | 0.3 | 0.1 |
| 1969 | 42.4 | 28.3 | 25.0 | 1.8 | 2.1 | 0.3 | 0.1 |
| 1968 | 42.0 | 28.6 | 25.2 | 1.8 | 2.0 | 0.3 | 0.1 |
| 1967 | 41.7 | 28.7 | 25.3 | 1.8 | 2.0 | 0.4 | 0.1 |
| 1966 | 41.6 | 28.7 | 25.5 | 1.7 | 2.0 | 0.4 | 0.1 |
| 1965 | 41.8 | 28.5 | 25.6 | 1.7 | 1.9 | 0.4 | 0.1 |
| 1964 | 41.9 | 28.0 | 25.9 | 1.7 | 1.9 | 0.4 | 0.2 |
| 1963 | 41.8 | 27.7 | 26.2 | 1.7 | 2.0 | 0.5 | 0.1 |
| 1962 | 41.9 | 26.2 | 27.6 | 1.7 | 2.0 | 0.5 | 0.1 |
| 1961 | 42.0 | 26.1 | 27.7 | 1.7 | 1.9 | 0.5 | 0.1 |
| 1960 | 42.2 | 24.6 | 28.9 | 1.7 | 2.0 | 0.5 | 0.1 |

Based on revenue data in Table 56.

# TABLE 59
# REVENUES – TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND CLASSES OF SERVICE
## YEAR 1980 – THOUSANDS OF DOLLARS

| Division/State | Total from Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **$91,618,672** | **$35,528,191** | **$25,961,312** | **$26,957,404** | **$1,030,484** | **$1,801,181** | **$207,338** | **$132,762** |
| Maine | 419,370 | 179,703 | 95,528 | 130,580 | 7,279 | 6,256 | — | 24 |
| New Hampshire | 369,925 | 166,760 | 75,767 | 118,532 | 5,888 | 2,978 | — | — |
| Vermont | 159,593 | 81,179 | 30,665 | 40,340 | 1,703 | 5,676 | — | 30 |
| Massachusetts | 2,169,616 | 829,960 | 786,344 | 477,621 | 42,646 | 21,249 | 4,079 | 7,717 |
| Rhode Island | 339,642 | 135,570 | 111,227 | 82,455 | 4,782 | 5,608 | — | — |
| Connecticut | 1,304,427 | 543,812 | 423,680 | 312,372 | 22,952 | 1,181 | 13 | 417 |
| **New England** | **4,762,573** | **1,936,984** | **1,523,211** | **1,161,900** | **85,250** | **42,948** | **4,092** | **8,188** |
| New York | 6,728,974 | 2,322,403 | 2,560,407 | 1,258,461 | 102,991 | 372,037 | 111,039 | 1,636 |
| New Jersey | 3,406,334 | 1,294,382 | 1,169,763 | 886,370 | 53,659 | 60 | 356 | 1,744 |
| Pennsylvania | 4,842,489 | 1,784,199 | 1,055,082 | 1,885,372 | 57,979 | 13,868 | 42,764 | 3,225 |
| **Middle Atlantic** | **14,977,797** | **5,400,984** | **4,785,252** | **4,030,203** | **214,629** | **385,965** | **154,159** | **6,605** |
| Ohio | 4,720,467 | 1,737,388 | 1,119,751 | 1,690,472 | 44,276 | 124,940 | 2,208 | 1,432 |
| Indiana | 2,167,057 | 838,950 | 426,180 | 872,439 | 20,448 | 6,882 | 881 | 1,277 |
| Illinois | 4,728,300 | 1,690,006 | 1,452,128 | 1,310,251 | 31,724 | 229,039 | 14,715 | 437 |
| Michigan | 3,328,991 | 1,197,417 | 817,976 | 1,214,819 | 49,656 | 44,401 | — | 4,722 |
| Wisconsin | 1,541,591 | 641,465 | 443,641 | 414,810 | 25,221 | 14,546 | — | 1,908 |
| **East North Central** | **16,486,406** | **6,105,226** | **4,259,676** | **5,502,791** | **171,325** | **419,808** | **17,804** | **9,776** |
| Minnesota | 1,293,200 | 504,844 | 232,958 | 527,276 | 14,961 | 11,609 | — | 1,552 |
| Iowa | 1,073,089 | 481,302 | 268,777 | 294,644 | 13,489 | 14,087 | — | 790 |
| Missouri | 1,751,974 | 807,863 | 568,856 | 332,096 | 18,211 | 23,061 | 618 | 1,269 |
| North Dakota | 182,746 | 93,250 | 53,389 | 30,591 | 2,277 | 3,079 | — | 160 |
| South Dakota | 180,832 | 96,619 | 59,336 | 20,114 | 2,248 | 2,269 | — | 246 |
| Nebraska | 492,546 | 227,618 | 166,923 | 79,598 | 7,225 | 9,866 | 317 | 999 |
| Kansas | 943,494 | 388,741 | 316,476 | 218,176 | 10,498 | 8,924 | — | 679 |
| **West North Central** | **5,917,881** | **2,600,237** | **1,666,715** | **1,502,495** | **68,909** | **72,895** | **935** | **5,695** |
| Delaware | 325,150 | 111,624 | 83,846 | 126,319 | 2,665 | 244 | — | 452 |
| Maryland and D.C. | 2,037,114 | 729,045 | 647,189 | 608,890 | 34,358 | 976 | 15,590 | 1,066 |
| Virginia | 2,369,541 | 1,075,837 | 654,316 | 419,406 | 18,814 | 198,606 | 1,100 | 1,462 |
| West Virginia | 710,396 | 266,846 | 147,631 | 290,742 | 3,941 | 1,224 | — | 12 |
| North Carolina | 2,268,336 | 1,043,699 | 536,076 | 642,696 | 15,106 | 28,993 | — | 1,766 |
| South Carolina | 1,313,063 | 548,403 | 290,952 | 447,905 | 5,796 | 19,431 | — | 576 |
| Georgia | 2,129,024 | 903,232 | 586,938 | 616,826 | 15,133 | 4,608 | 1,923 | 364 |
| Florida | 4,687,708 | 2,377,320 | 1,391,313 | 762,266 | 46,243 | 102,300 | — | 8,266 |
| **South Atlantic** | **15,840,332** | **7,056,006** | **4,338,261** | **3,915,050** | **142,056** | **356,382** | **18,613** | **13,964** |
| Kentucky | 1,552,846 | 511,856 | 297,922 | 676,992 | 10,208 | 54,960 | — | 908 |
| Tennessee | 2,379,033 | 872,194 | 194,255 | 1,268,724 | 34,914 | 763 | — | 8,183 |
| Alabama | 2,038,737 | 765,515 | 366,763 | 890,293 | 13,357 | 436 | — | 2,373 |
| Mississippi | 996,721 | 434,503 | 242,061 | 293,041 | 10,430 | 15,720 | — | 966 |
| **East South Central** | **6,967,337** | **2,584,068** | **1,101,001** | **3,129,050** | **68,909** | **71,879** | **—** | **12,430** |
| Arkansas | 875,134 | 384,820 | 216,132 | 254,052 | 4,849 | 14,720 | 464 | 97 |
| Louisiana | 2,028,969 | 717,543 | 416,717 | 789,246 | 13,415 | 55,617 | — | 36,431 |
| Oklahoma | 1,119,912 | 506,606 | 314,063 | 242,092 | 5,374 | 51,414 | — | 363 |
| Texas | 7,068,956 | 2,699,400 | 1,861,473 | 2,330,523 | 49,027 | 122,803 | — | 5,730 |
| **West South Central** | **11,092,971** | **4,308,369** | **2,808,385** | **3,615,913** | **72,665** | **244,554** | **464** | **42,621** |
| Montana | 186,921 | 76,037 | 53,430 | 53,757 | 2,435 | 938 | — | 324 |
| Idaho | 354,098 | 135,916 | 109,811 | 104,967 | 2,456 | 900 | — | 48 |
| Wyoming | 145,218 | 40,364 | 55,099 | 47,943 | 1,081 | 565 | — | 166 |
| Colorado | 847,351 | 308,937 | 343,727 | 165,252 | 15,667 | 12,467 | — | 1,301 |
| New Mexico | 453,591 | 144,428 | 175,610 | 106,357 | 3,988 | 21,172 | — | 2,036 |
| Arizona | 1,317,231 | 552,820 | 460,874 | 265,421 | 11,229 | 23,951 | — | 2,936 |
| Utah | 453,526 | 170,178 | 135,753 | 128,079 | 5,995 | 13,389 | — | 132 |
| Nevada | 404,648 | 159,053 | 87,569 | 149,027 | 4,219 | 4,474 | — | 306 |
| **Mountain** | **4,162,584** | **1,587,733** | **1,421,873** | **1,020,803** | **47,070** | **77,856** | **—** | **7,249** |
| Washington | 964,786 | 457,758 | 253,146 | 232,143 | 9,949 | 10,784 | 159 | 847 |
| Oregon | 876,708 | 396,502 | 255,620 | 214,207 | 9,392 | 594 | — | 393 |
| California | 8,997,776 | 2,895,784 | 3,368,718 | 2,451,190 | 133,069 | 113,296 | 11,040 | 24,679 |
| **Pacific** | **10,839,270** | **3,750,044** | **3,877,484** | **2,897,540** | **152,410** | **124,674** | **11,199** | **25,919** |
| Alaska | 125,305 | 56,148 | 60,966 | 2,051 | 1,533 | 4,220 | 72 | 315 |
| Hawaii | 446,216 | 142,392 | 118,488 | 179,608 | 5,728 | — | — | — |
| **Alaska & Hawaii** | **571,521** | **198,540** | **179,454** | **181,659** | **7,261** | **4,220** | **72** | **315** |

# TABLE 60
# REVENUES – INVESTOR-OWNED ELECTRIC UTILITIES
## BY STATE AND CLASSES OF SERVICE
## YEAR 1980 – THOUSANDS OF DOLLARS

| Division/State | Total from Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-departmental |
|---|---|---|---|---|---|---|---|---|
| **Total United States** | **$76,183,103** | **$28,496,095** | **$22,352,424** | **$22,973,190** | **$819,806** | **$1,362,153** | **$111,548** | **$67,887** |
| Maine | 409,345 | 173,820 | 92,611 | 129,680 | 7,146 | 6,088 | – | – |
| New Hampshire | 347,762 | 151,737 | 69,179 | 118,140 | 5,792 | 2,914 | – | – |
| Vermont | 135,500 | 66,218 | 26,662 | 36,240 | 1,459 | 4,921 | – | – |
| Massachusetts | 1,982,093 | 747,861 | 748,792 | 421,899 | 40,949 | 18,513 | 4,079 | – |
| Rhode Island | 338,619 | 134,888 | 111,083 | 82,297 | 4,755 | 5,596 | – | – |
| Connecticut | 1,252,701 | 527,206 | 409,498 | 293,878 | 22,106 | – | 13 | – |
| **New England** | **4,466,020** | **1,801,730** | **1,457,825** | **1,082,134** | **82,207** | **38,032** | **4,092** | **–** |
| New York | 6,258,588 | 2,303,183 | 2,549,310 | 1,190,412 | 60,314 | 136,323 | 17,640 | 1,406 |
| New Jersey | 3,372,470 | 1,280,226 | 1,161,147 | 875,770 | 53,251 | – | 356 | 1,720 |
| Pennsylvania | 4,748,823 | 1,716,848 | 1,038,025 | 1,877,206 | 57,507 | 13,371 | 42,764 | 3,102 |
| **Middle Atlantic** | **14,379,881** | **5,300,257** | **4,748,482** | **3,943,388** | **171,072** | **149,694** | **60,760** | **6,228** |
| Ohio | 4,447,862 | 1,567,896 | 1,067,794 | 1,646,441 | 40,509 | 122,203 | 2,208 | 811 |
| Indiana | 1,900,524 | 660,706 | 372,363 | 842,432 | 18,855 | 4,265 | 881 | 1,022 |
| Illinois | 4,505,307 | 1,550,750 | 1,384,767 | 1,295,870 | 30,824 | 228,307 | 14,715 | 74 |
| Michigan | 3,073,517 | 1,086,799 | 755,088 | 1,165,858 | 34,680 | 27,564 | – | 3,528 |
| Wisconsin | 1,372,161 | 535,964 | 407,784 | 392,111 | 22,490 | 12,953 | – | 859 |
| **East North Central** | **15,299,371** | **5,402,115** | **3,987,796** | **5,342,712** | **147,358** | **395,292** | **17,804** | **6,294** |
| Minnesota | 983,434 | 301,752 | 158,179 | 500,609 | 12,893 | 9,683 | – | 318 |
| Iowa | 875,841 | 349,142 | 234,573 | 268,307 | 11,994 | 11,825 | – | – |
| Missouri | 1,400,268 | 592,656 | 485,277 | 290,534 | 15,723 | 15,906 | – | 172 |
| North Dakota | 124,580 | 56,196 | 33,893 | 29,655 | 2,179 | 2,557 | – | 100 |
| South Dakota | 116,832 | 53,241 | 42,946 | 17,611 | 1,860 | 1,174 | – | – |
| Nebraska | – | – | – | – | – | – | – | – |
| Kansas | 696,533 | 287,865 | 221,773 | 171,202 | 8,862 | 6,709 | – | 122 |
| **West North Central** | **4,197,488** | **1,640,852** | **1,176,641** | **1,277,918** | **53,511** | **47,854** | **–** | **712** |
| Delaware | 281,364 | 89,002 | 72,553 | 117,055 | 2,191 | 147 | – | 416 |
| Maryland and D.C. | 1,971,151 | 688,992 | 624,653 | 606,213 | 33,942 | 796 | 15,590 | 965 |
| Virginia | 2,176,923 | 952,346 | 603,603 | 404,605 | 17,725 | 197,544 | 1,100 | – |
| West Virginia | 707,237 | 264,869 | 146,936 | 290,339 | 3,905 | 1,188 | – | – |
| North Carolina | 1,819,111 | 755,403 | 441,870 | 583,689 | 12,671 | 25,259 | – | 219 |
| South Carolina | 1,064,344 | 396,832 | 236,586 | 413,223 | 4,967 | 12,503 | – | 233 |
| Georgia | 1,652,835 | 563,331 | 488,889 | 582,418 | 13,044 | 3,230 | 1,923 | – |
| Florida | 3,821,641 | 1,926,695 | 1,157,802 | 600,697 | 35,624 | 95,809 | – | 5,014 |
| **South Atlantic** | **13,494,606** | **5,637,470** | **3,772,892** | **3,598,239** | **124,069** | **336,476** | **18,613** | **6,847** |
| Kentucky | 852,421 | 309,305 | 155,197 | 326,865 | 6,711 | 54,024 | – | 319 |
| Tennessee | 40,086 | 17,966 | 8,744 | 12,370 | 243 | 763 | – | – |
| Alabama | 1,309,074 | 493,251 | 296,455 | 512,613 | 6,685 | – | – | 70 |
| Mississippi | 592,442 | 222,528 | 164,544 | 184,509 | 5,543 | 15,318 | – | – |
| **East South Central** | **2,794,023** | **1,043,050** | **624,940** | **1,036,357** | **19,182** | **70,105** | **–** | **389** |
| Arkansas | 696,511 | 267,066 | 170,003 | 241,524 | 4,389 | 13,529 | – | – |
| Louisiana | 1,860,175 | 609,824 | 370,218 | 777,294 | 12,470 | 54,411 | – | 35,958 |
| Oklahoma | 902,934 | 383,120 | 242,088 | 222,791 | 4,606 | 50,329 | – | – |
| Texas | 5,998,459 | 2,161,760 | 1,519,168 | 2,159,181 | 40,514 | 117,332 | – | 504 |
| **West South Central** | **9,458,079** | **3,421,770** | **2,301,477** | **3,400,790** | **61,979** | **235,601** | **–** | **36,462** |
| Montana | 138,488 | 55,179 | 43,054 | 36,702 | 2,411 | 842 | – | 300 |
| Idaho | 327,730 | 122,293 | 99,348 | 103,741 | 2,288 | 60 | – | – |
| Wyoming | 96,319 | 25,445 | 22,718 | 46,765 | 969 | 292 | – | 130 |
| Colorado | 635,940 | 221,473 | 248,836 | 139,581 | 13,860 | 12,113 | – | 77 |
| New Mexico | 372,189 | 118,671 | 123,568 | 104,548 | 3,760 | 20,127 | – | 1,515 |
| Arizona | 832,501 | 320,411 | 292,168 | 199,930 | 7,471 | 12,521 | – | – |
| Utah | 408,096 | 154,627 | 112,293 | 123,215 | 5,362 | 12,575 | – | 24 |
| Nevada | 379,941 | 155,055 | 79,088 | 137,327 | 4,045 | 4,426 | – | – |
| **Mountain** | **3,191,204** | **1,173,154** | **1,021,073** | **891,809** | **40,166** | **62,956** | **–** | **2,046** |
| Washington | 453,943 | 244,630 | 142,704 | 61,555 | 5,054 | – | – | – |
| Oregon | 739,870 | 339,200 | 216,728 | 175,022 | 8,657 | 124 | – | 139 |
| California | 7,253,531 | 2,345,562 | 2,780,933 | 1,983,332 | 100,763 | 23,964 | 10,207 | 8,770 |
| **Pacific** | **8,447,344** | **2,929,392** | **3,140,365** | **2,219,909** | **114,474** | **24,088** | **10,207** | **8,909** |
| Alaska | 8,871 | 3,913 | 2,445 | 326 | 60 | 2,055 | 72 | – |
| Hawaii | 446,216 | 142,392 | 118,488 | 179,608 | 5,728 | – | – | – |
| **Alaska & Hawaii** | **455,087** | **146.305** | **120,933** | **179,934** | **5,788** | **2,055** | **72** | **–** |

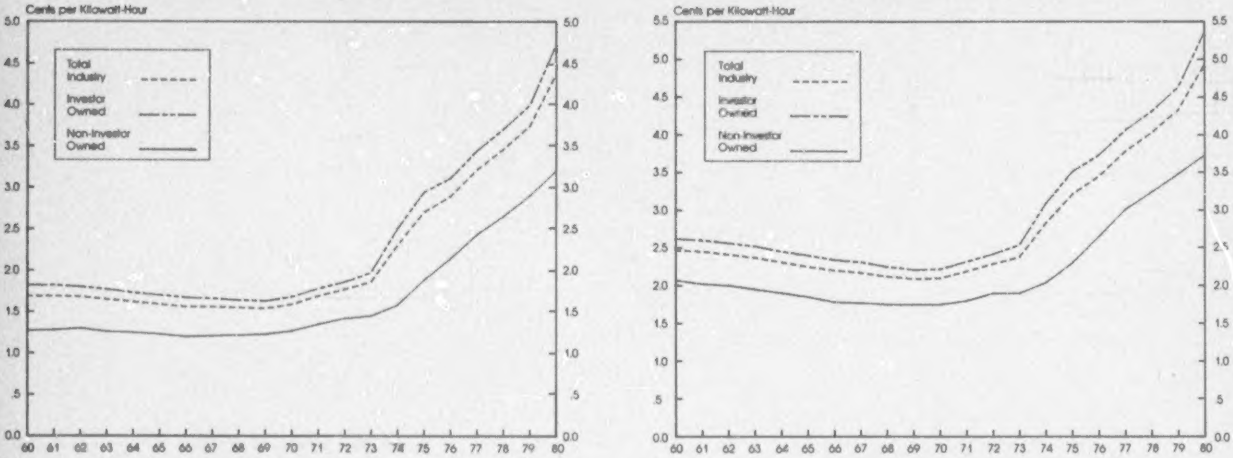
# TABLE 61
# REVENUES — TOTAL ELECTRIC UTILITY INDUSTRY
## BY MONTH AND CLASSES OF SERVICE
## 1977– 1980 — THOUSANDS OF DOLLARS

| Year — Month | Total from Ultimate Customers | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Inter-depart-mental |
|---|---|---|---|---|---|---|---|---|
| **YEAR — 1980** | | | | | | | | |
| January | $ 7,021,491 | $ 2,853,314 | $ 1,895,007 | $ 2,025,955 | $ 81,950 | $ 137,361 | $ 17,055 | $ 10,849 |
| February | 7,122,706 | 2,858,283 | 1,926,476 | 2,086,210 | 81,834 | 141,699 | 17,207 | 10,997 |
| March | 7,161,177 | 2,791,604 | 1,965,372 | 2,149,006 | 82,892 | 141,683 | 17,822 | 12,798 |
| April | 6,823,546 | 2,540,501 | 1,902,644 | 2,129,853 | 82,920 | 137,645 | 17,213 | 12,770 |
| May | 6,746,885 | 2,387,279 | 1,939,448 | 2,164,414 | 84,830 | 141,701 | 16,041 | 13,172 |
| June | 7,386,007 | 2,711,523 | 2,176,983 | 2,247,762 | 84,703 | 148,005 | 16,523 | 508* |
| July | 8,392,007 | 3,408,768 | 2,441,807 | 2,269,442 | 85,290 | 158,192 | 17,270 | 11,238 |
| August | 9,029,741 | 3,819,346 | 2,579,739 | 2,353,976 | 86,774 | 160,080 | 17,557 | 12,269 |
| September | 8,744,966 | 3,514,320 | 2,533,378 | 2,414,337 | 88,262 | 165,755 | 17,448 | 11,466 |
| October | 7,831,226 | 2,887,818 | 2,287,803 | 2,380,134 | 88,856 | 156,347 | 17,715 | 12,553 |
| November | 7,448,762 | 2,711,169 | 2,116,102 | 2,349,265 | 90,276 | 152,442 | 17,300 | 12,208 |
| December | 7,910,158 | 3,044,266 | 2,196,553 | 2,387,050 | 91,897 | 160,271 | 18,187 | 11,934 |
| Total | **$91,618,672** | **$35,528,191** | **$25,961,312** | **$26,957,404** | **$1,030,484** | **$1,801,181** | **$207,338** | **$132,762** |
| **YEAR — 1979** | | | | | | | | |
| January | $ 6,339,490 | $ 2,660,458 | $ 1,694,953 | $ 1,771,281 | $ 72,637 | $ 115,792 | $ 14,721 | $ 9,648 |
| February | 6,335,948 | 2,635,785 | 1,694,262 | 1,791,593 | 71,609 | 118,643 | 13,753 | 10,303 |
| March | 6,179,819 | 2,437,713 | 1,683,147 | 1,842,525 | 72,619 | 114,411 | 18,931 | 10,473 |
| April | 5,907,135 | 2,218,372 | 1,620,031 | 1,859,642 | 72,957 | 111,011 | 14,417 | 10,705 |
| May | 5,911,721 | 2,101,365 | 1,673,460 | 1,921,287 | 73,163 | 112,421 | 18,689 | 11,336 |
| June | 6,339,534 | 2,312,381 | 1,838,231 | 1,969,090 | 72,904 | 121,984 | 14,233 | 10,711 |
| July | 6,856,494 | 2,666,077 | 1,971,414 | 1,997,842 | 73,567 | 124,339 | 13,979 | 9,276 |
| August | 7,275,150 | 2,944,547 | 2,061,765 | 2,041,374 | 74,136 | 129,870 | 14,187 | 9,271 |
| September | 7,039,456 | 2,771,939 | 2,005,305 | 2,026,106 | 75,849 | 134,796 | 14,338 | 11,123 |
| October | 6,539,360 | 2,394,600 | 1,875,449 | 2,033,491 | 76,508 | 134,140 | 14,691 | 10,481 |
| November | 6,345,153 | 2,325,637 | 1,785,812 | 1,998,992 | 78,995 | 129,406 | 15,660 | 10,651 |
| December | 6,622,234 | 2,576,197 | 1,815,733 | 1,989,270 | 80,746 | 133,392 | 16,413 | 10,483 |
| Total | **$77,691,494** | **$30,045,071** | **$21,719,562** | **$23,242,493** | **$ 895,690** | **$1,480,205** | **$184,012** | **$124,461** |
| **YEAR — 1978** | | | | | | | | |
| January | $ 5,674,472 | $ 2,383,371 | $ 1,550,914 | $ 1,530,002 | $ 71,481 | $ 111,699 | $ 16,495 | $ 10,510 |
| February | 5,626,943 | 2,370,257 | 1,542,220 | 1,506,219 | 68,422 | 114,868 | 15,319 | 9,638 |
| March | 5,646,392 | 2,286,744 | 1,567,373 | 1,585,210 | 68,604 | 111,584 | 16,955 | 9,922 |
| April | 5,277,111 | 1,995,267 | 1,479,358 | 1,607,895 | 67,957 | 104,467 | 12,557 | 9,610 |
| May | 5,277,225 | 1,916,992 | 1,495,398 | 1,669,374 | 68,135 | 105,911 | 11,728 | 9,687 |
| June | 5,802,315 | 2,160,280 | 1,687,581 | 1,749,243 | 68,323 | 113,382 | 13,699 | 9,807 |
| July | 6,318,593 | 2,535,233 | 1,827,289 | 1,747,552 | 70,082 | 115,119 | 13,090 | 10,228 |
| August | 6,510,850 | 2,634,782 | 1,865,602 | 1,807,683 | [illegible] | 116,626 | 14,178 | 742 |
| September | 6,420,243 | 2,552,646 | 1,835,474 | 1,817,214 | 72,708 | 118,839 | 14,196 | 9,166 |
| October | 5,918,620 | 2,220,302 | 1,694,767 | 1,795,019 | 73,118 | 112,718 | 13,931 | 8,765 |
| November | 5,551,990 | 2,040,442 | 1,565,968 | 1,745,705 | 73,993 | 105,170 | 11,927 | 8,785 |
| December | 5,828,190 | 2,285,103 | 1,602,420 | 1,719,275 | 75,617 | 120,056 | 16,048 | 9,671 |
| Total | **$69,852,944** | **$27,381,419** | **$19,714,364** | **$20,280,391** | **$ 849,677** | **$1,350,439** | **$170,123** | **$106,531** |
| **YEAR — 1977** | | | | | | | | |
| January | $ 5,107,718 | $ 2,197,144 | $ 1,400,054 | $ 1,318,853 | $ 67,121 | $ 102,305 | $ 14,506 | $ 7,735 |
| February | 5,005,356 | 2,115,811 | 1,376,099 | 1,325,485 | 63,012 | 102,371 | 14,682 | 7,896 |
| March | 4,846,944 | 1,911,146 | 1,354,675 | 1,399,171 | 61,293 | 100,563 | 12,328 | 7,768 |
| April | 4,673,965 | 1,756,380 | 1,341,383 | 1,398,097 | 60,931 | 97,035 | 12,022 | 8,117 |
| May | 4,689,623 | 1,685,363 | 1,380,901 | 1,441,828 | 63,456 | 96,552 | 13,104 | 8,419 |
| June | 5,100,562 | 1,906,292 | 1,521,934 | 1,487,968 | 62,741 | 100,794 | 12,428 | 8,405 |
| July | 5,771,628 | 2,361,350 | 1,698,254 | 1,519,562 | 64,983 | 107,790 | 11,725 | 7,964 |
| August | 5,972,701 | 2,473,836 | 1,726,383 | 1,576,003 | 62,737 | 116,299 | 9,021 | 8,422 |
| September | 5,819,079 | 2,315,707 | 1,710,604 | 1,597,229 | 65,798 | 109,846 | 11,230 | 8,665 |
| October | 5,349,126 | 2,019,001 | 1,572,249 | 1,561,718 | 66,789 | 106,533 | 10,905 | 11,931 |
| November | 5,013,627 | 1,852,794 | 1,451,684 | 1,517,833 | 68,398 | 102,568 | 11,311 | 9,039 |
| December | 5,259,700 | 2,092,676 | 1,487,328 | 1,485,574 | 69,512 | 102,499 | 12,418 | 9,693 |
| Total | **$62,610,029** | **$24,687,500** | **$18,021,548** | **$17,629,321** | **$ 776,771** | **$1,245,155** | **$145,680** | **$104,054** |

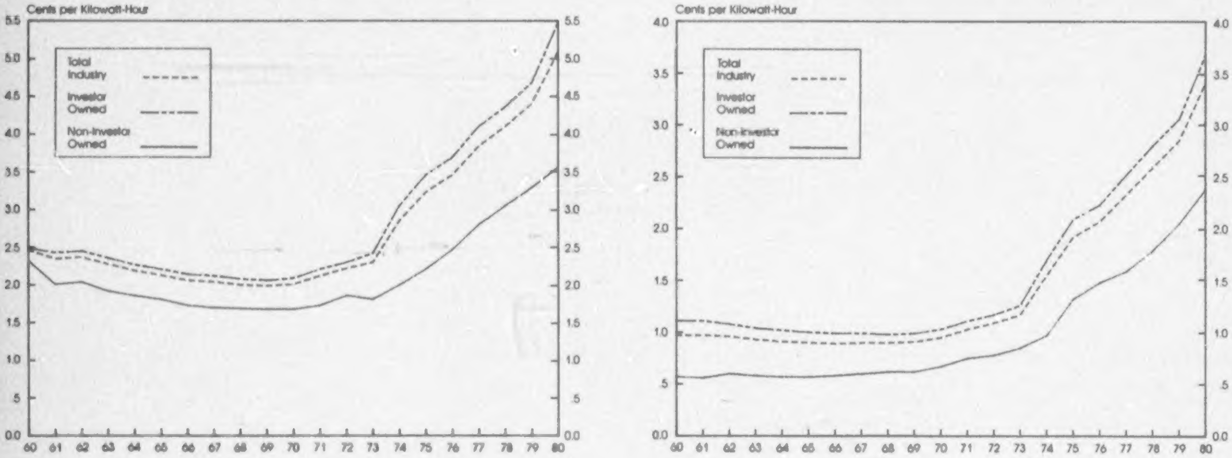
*Reflects a large, one-time adjustment by Gulf States Utilities Co. for errors in their 9 previous months' reports.

## Chart VIII-B
# AVERAGE REVENUES PER KWHR SOLD

TOTAL ULTIMATE CUSTOMERS RESIDENTIAL CUSTOMERS



COMMERCIAL CUSTOMERS INDUSTRIAL CUSTOMERS



Based on sales data in Tables 38 and 39, page 43, and revenue data in Tables 56 and 57, page 57.

# TABLE 62
# AVERAGE REVENUES PER KILOWATT-HOUR SOLD
# TOTAL ELECTRIC UTILITY INDUSTRY
## CENTS PER KILOWATT-HOUR

| Year | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Total Ultimate Customers |
|---|---|---|---|---|---|---|---|
| **1980** | **4.93¢** | **5.09¢** | **3.41¢** | **7.07¢** | **3.72¢** | **4.83¢** | **4.37¢** |
| 1979 | 4.33 | 4.40 | 2.85 | 6.07 | 2.99 | 4.33 | 3.74 |
| 1978 | 4.03 | 4.10 | 2.59 | 5.74 | 2.73 | 3.92 | 3.46 |
| 1977 | 3.78 | 3.84 | 2.33 | 5.39 | 2.69 | 3.46 | 3.21 |
| 1976 | 3.45 | 3.46 | 2.07 | 5.03 | 2.44 | 3.78 | 2.89 |
| 1975 | 3.21 | 3.23 | 1.92 | 4.74 | 2.24 | 3.72 | 2.70 |
| 1974 | 2.83 | 2.85 | 1.55 | 4.31 | 1.92 | 3.43 | 2.30 |
| 1973 | 2.38 | 2.30 | 1.17 | 3.83 | 1.47 | 2.20 | 1.86 |
| 1972 | 2.29 | 2.22 | 1.09 | 3.69 | 1.37 | 1.92 | 1.77 |
| 1971 | 2.19 | 2.12 | 1.03 | 3.53 | 1.29 | 1.72 | 1.69 |
| 1970 | 2.10 | 2.01 | 0.95 | 3.38 | 1.20 | 1.49 | 1.59 |
| 1969 | 2.09 | 1.99 | 0.91 | 3.25 | 1.16 | 1.39 | 1.54 |
| 1968 | 2.12 | 2.00 | 0.90 | 3.18 | 1.18 | 1.35 | 1.55 |
| 1967 | 2.17 | 2.04 | 0.90 | 3.12 | 1.19 | 1.33 | 1.56 |
| 1966 | 2.20 | 2.06 | 0.89 | 3.05 | 1.24 | 1.31 | 1.56 |
| 1965 | 2.25 | 2.13 | 0.90 | 2.99 | 1.34 | 1.31 | 1.59 |
| 1964 | 2.31 | 2.19 | 0.91 | 2.99 | 1.35 | 1.31 | 1.62 |
| 1963 | 2.37 | 2.28 | 0.93 | 3.05 | 1.36 | 1.32 | 1.65 |
| 1962 | 2.41 | 2.37 | 0.96 | 3.04 | 1.39 | 1.34 | 1.68 |
| 1961 | 2.45 | 2.35 | 0.97 | 3.04 | 1.41 | 1.34 | 1.69 |
| 1960 | 2.47 | 2.46 | 0.97 | 3.18 | 1.49 | 1.31 | 1.69 |

Based on sales data in Table 38 and revenue data in Table 56.

# TABLE 63
# AVERAGE REVENUES PER KILOWATT-HOUR SOLD
# INVESTOR-OWNED ELECTRIC UTILITIES
## CENTS PER KILOWATT-HOUR

| Year | Residential | Commercial | Industrial | Street and Highway Lighting | Other Public Authorities | Railroads and Railways | Total Ultimate Customers |
|---|---|---|---|---|---|---|---|
| **1980** | **5.36¢** | **5.47¢** | **3.68¢** | **7.68¢** | **3.96¢** | **5.17¢** | **4.72¢** |
| 1979 | 4.63 | 4.68 | 3.06 | 6.60 | 3.33 | 3.80 | 3.99 |
| 1978 | 4.31 | 4.36 | 2.80 | 6.18 | 2.96 | 3.59 | 3.70 |
| 1977 | 4.06 | 4.10 | 2.52 | 5.79 | 2.90 | 3.68 | 3.44 |
| 1976 | 3.73 | 3.69 | 2.23 | 5.43 | 2.69 | 3.82 | 3.11 |
| 1975 | 3.51 | 3.46 | 2.09 | 5.14 | 2.51 | 3.79 | 2.94 |
| 1974 | 3.09 | 3.05 | 1.70 | 4.66 | 2.17 | 3.48 | 2.50 |
| 1973 | 2.54 | 2.42 | 1.26 | 4.12 | 1.61 | 2.22 | 1.97 |
| 1972 | 2.42 | 2.30 | 1.17 | 3.95 | 1.50 | 1.94 | 1.86 |
| 1971 | 2.32 | 2.21 | 1.11 | 3.78 | 1.42 | 1.73 | 1.78 |
| 1970 | 2.22 | 2.09 | 1.03 | 3.62 | 1.33 | 1.51 | 1.68 |
| 1969 | 2.21 | 2.06 | 0.99 | 3.51 | 1.29 | 1.40 | 1.63 |
| 1968 | 2.25 | 2.08 | 0.98 | 3.41 | 1.31 | 1.36 | 1.64 |
| 1967 | 2.31 | 2.12 | 0.99 | 3.36 | 1.32 | 1.34 | 1.66 |
| 1966 | 2.34 | 2.14 | 0.99 | 3.30 | 1.37 | 1.32 | 1.67 |
| 1965 | 2.40 | 2.21 | 1.00 | 3.26 | 1.40 | 1.32 | 1.70 |
| 1964 | 2.45 | 2.27 | 1.02 | 3.24 | 1.41 | 1.31 | 1.73 |
| 1963 | 2.52 | 2.36 | 1.04 | 3.23 | 1.44 | 1.33 | 1.77 |
| 1962 | 2.56 | 2.45 | 1.08 | 3.22 | 1.47 | 1.35 | 1.80 |
| 1961 | 2.60 | 2.43 | 1.11 | 3.23 | 1.47 | 1.35 | 1.82 |
| 1960 | 2.62 | 2.49 | 1.11 | 3.20 | 1.50 | 1.31 | 1.82 |

Based on sales data in Table 39 and revenue data in Table 57.

# TABLE 64

# AVERAGE ANNUAL REVENUE PER CUSTOMER

| TOTAL ELECTRIC UTILITY INDUSTRY | | | | INVESTOR-OWNED ELECTRIC UTILITIES | | | |
|---|---|---|---|---|---|---|---|
| Year | Total Ultimate Customers | Residential | Commercial | Year | Total Ultimate Customers | Residential | Commercial |
| **1980** | **$1,011.57** | **$442.43** | **$2,733.26** | **1980** | **$1,083.24** | **$457.30** | **$3,022.40** |
| 1979 | 876.38 | 382.24 | 2,338.58 | 1979 | 928.41 | 387.34 | 2,555.09 |
| 1978 | 807.12 | 356.74 | 2,176.91 | 1978 | 858.50 | 363.56 | 2,384.37 |
| 1977 | 739.86 | 328.99 | 2,031.41 | 1977 | 789.43 | 336.24 | 2,234.30 |
| 1976 | 646.33 | 288.39 | 1,754.26 | 1976 | 692.11 | 297.14 | 1,942.05 |
| 1975 | 579.03 | 262.26 | 1,579.55 | 1975 | 626.39 | 275.86 | 1,763.39 |
| 1974 | 493.43 | 223.73 | 1,327.40 | 1974 | 534.25 | 234.33 | 1,474.97 |
| 1973 | 408.14 | 192.35 | 1,096.55 | 1973 | 433.66 | 197.38 | 1,197.68 |
| 1972 | 371.01 | 176.39 | 988.78 | 1972 | 391.66 | 179.49 | 1,071.15 |
| 1971 | 336.46 | 161.49 | 888.75 | 1971 | 354.57 | 163.64 | 961.77 |
| 1970 | 307.36 | 148.58 | 803.54 | 1970 | 321.42 | 149.42 | 861.21 |
| 1969 | 285.99 | 137.45 | 735.27 | 1969 | 298.71 | 138.06 | 784.21 |
| 1968 | 269.59 | 128.53 | 694.31 | 1968 | 281.36 | 128.95 | 739.04 |
| 1967 | 254.90 | 120.85 | 652.20 | 1967 | 264.84 | 120.93 | 688.26 |
| 1966 | 244.39 | 115.65 | 620.21 | 1966 | 255.02 | 116.19 | 655.03 |
| 1965 | 233.62 | 111.11 | 584.66 | 1965 | 243.97 | 111.32 | 617.08 |
| 1964 | 226.80 | 108.44 | 553.36 | 1964 | 236.15 | 108.28 | 580.31 |
| 1963 | 220.38 | 105.17 | 528.38 | 1963 | 228.80 | 105.03 | 553.59 |
| 1962 | 214.19 | 102.66 | 492.08 | 1962 | 221.23 | 101.50 | 512.94 |
| 1961 | 204.30 | 98.35 | 462.99 | 1961 | 211.83 | 97.50 | 483.21 |
| 1960 | 197.28 | 94.44 | 421.58 | 1960 | 205.23 | 94.42 | 452.08 |

Based on revenue data in Tables 56 and 57, and average number of customers per period.

# TABLE 65
# AVERAGE ANNUAL REVENUE PER CUSTOMER
## TOTAL ELECTRIC UTILITY INDUSTRY
## BY STATE AND CERTAIN CLASSES OF SERVICE – 1980

| Division/State | Total Ultimate Customers | Residential | Commercial |
|---|---|---|---|
| **Total United States** | **$1,011.57** | **$442.43** | **$2,733.26** |
| Maine | 799.77 | 390.09 | 1,682.33 |
| New Hampshire | 894.87 | 458.82 | 1,626.98 |
| Vermont | 693.82 | 397.24 | 1,358.78 |
| Massachusetts | 991.71 | 423.18 | 3,784.43 |
| Rhode Island | 921.71 | 407.78 | 3,324.87 |
| Connecticut | 1,061.46 | 487.19 | 4,040.47 |
| **New England** | **961.57** | **436.41** | **3,227.03** |
| New York | 1,051.95 | 409.05 | 3,945.67 |
| New Jersey | 1,194.73 | 512.37 | 3,807.79 |
| Pennsylvania | 1,039.05 | 427.54 | 2,347.69 |
| **Middle Atlantic** | **1,076.90** | **436.37** | **3,404.59** |
| Ohio | 1,104.14 | 450.64 | 2,958.45 |
| Indiana | 989.83 | 427.10 | 2,084.30 |
| Illinois | 1,057.81 | 416.16 | 3,722.06 |
| Michigan | 901.62 | 356.96 | 2,550.19 |
| Wisconsin | 784.81 | 363.32 | 2,328.81 |
| **East North Central** | **993.70** | **407.00** | **2,869.71** |
| Minnesota | 787.00 | 342.45 | 1,500.19 |
| Iowa | 856.20 | 437.95 | 1,852.42 |
| Missouri | 838.12 | 434.08 | 2,669.28 |
| North Dakota | 654.73 | 388.12 | 1,468.91 |
| South Dakota | 606.11 | 372.70 | 1,579.39 |
| Nebraska | 704.36 | 387.06 | 1,594.28 |
| Kansas | 917.62 | 436.01 | 2,509.84 |
| **West North Central** | **811.58** | **405.44** | **2,037.04** |
| Delaware | 1,370.36 | 516.29 | 4,153.47 |
| Maryland and D.C. | 1,199.90 | 476.62 | 3,964.23 |
| Virginia | 1,196.86 | 604.22 | 3,700.05 |
| West Virginia | 898.68 | 380.45 | 1,864.00 |
| North Carolina | 930.29 | 489.15 | 1,884.72 |
| South Carolina | 1,073.37 | 510.65 | 2,046.39 |
| Georgia | 1,000.50 | 472.29 | 2,947.22 |
| Florida | 1,058.81 | 600.78 | 3,174.54 |
| **South Atlantic** | **1,061.53** | **530.33** | **2,885.40** |
| Kentucky | 1,071.46 | 400.02 | 1,969.46 |
| Tennessee | 1,269.29 | 520.95 | 1,080.59 |
| Alabama | 1,254.57 | 532.80 | 2,045.93 |
| Mississippi | 1,007.27 | 501.71 | 2,111.95 |
| **East South Central** | **1,173.32** | **491.58** | **1,761.83** |
| Arkansas | 903.93 | 453.46 | 2,139.48 |
| Louisiana | 1,232.27 | 491.99 | 2,514.75 |
| Oklahoma | 837.59 | 432.23 | 2,160.99 |
| Texas | 1,284.70 | 567.62 | 2,754.60 |
| **West South Central** | **1,173.34** | **523.19** | **2,581.63** |
| Montana | 516.06 | 249.51 | 1,019.71 |
| Idaho | 864.85 | 387.73 | 1,964.52 |
| Wyoming | 668.51 | 229.42 | 1,409.40 |
| Colorado | 687.92 | 287.62 | 2,269.41 |
| New Mexico | 917.52 | 342.66 | 2,580.49 |
| Arizona | 1,272.56 | 602.64 | 4,182.43 |
| Utah | 912.75 | 385.40 | 2,961.58 |
| Nevada | 1,194.05 | 526.80 | 2,439.66 |
| **Mountain** | **907.70** | **398.16** | **2,544.39** |
| Washington | 551.46 | 295.72 | 1,365.08 |
| Oregon | 745.54 | 395.09 | 1,522.65 |
| California | 940.67 | 346.31 | 2,973.26 |
| **Pacific** | **867.78** | **343.62** | **2,608.77** |
| Alaska | 892.24 | 464.16 | 3,290.30 |
| Hawaii | 1,509.83 | 558.09 | 3,098.05 |
| **Alaska & Hawaii** | **1,310.89** | **527.88** | **3,160.79** |

Based on revenue data in Table 59 and average number of customers data in Table 52.

# TABLE 66
# AVERAGE ANNUAL REVENUE PER CUSTOMER
## INVESTOR-OWNED ELECTRIC UTILITIES
## BY STATE AND CERTAIN CLASSES OF SERVICE – 1980

| Division/State | Total Ultimate Customers | Residential | Commercial |
|---|---|---|---|
| **Total United States** | **$1,083.24** | **$457.30** | **$3,022.40** |
| Maine | 818.78 | 395.55 | 1,721.04 |
| New Hampshire | 963.12 | 476.92 | 1,747.08 |
| Vermont | 751.63 | 414.64 | 1,502.93 |
| Massachusetts | 1,033.14 | 435.20 | 4,021.20 |
| Rhode Island | 925.81 | 408.82 | 3,341.34 |
| Connecticut | 1,062.94 | 491.35 | 4,119.74 |
| **New England** | **991.55** | **446.24** | **3,390.27** |
| New York | 998.02 | 413.68 | 4,014.07 |
| New Jersey | 1,203.25 | 515.54 | 3,842.38 |
| Pennsylvania | 1,068.26 | 431.96 | 2,392.82 |
| **Middle Atlantic** | **1,063.66** | **440.76** | **3,463.27** |
| Ohio | 1,169.54 | 457.84 | 3,129.05 |
| Indiana | 1,124.53 | 440.22 | 2,182.80 |
| Illinois | 1,094.89 | 415.04 | 3,838.00 |
| Michigan | 932.73 | 363.16 | 2,620.98 |
| Wisconsin | 834.81 | 363.56 | 2,504.45 |
| **East North Central** | **1,051.73** | **411.48** | **3,012.92** |
| Minnesota | 965.46 | 334.42 | 1,507.23 |
| Iowa | 959.94 | 443.43 | 1,997.08 |
| Missouri | 992.55 | 477.42 | 3,101.62 |
| North Dakota | 683.20 | 364.20 | 1,315.62 |
| South Dakota | 724.78 | 391.60 | 1,775.66 |
| Nebraska | — | — | — |
| Kansas | 1,022.29 | 479.95 | 3,027.62 |
| **West North Central** | **961.25** | **429.42** | **2,343.62** |
| Delaware | 1,594.03 | 555.46 | 4,637.75 |
| Maryland and D.C. | 1,241.27 | 481.59 | 4,088.69 |
| Virginia | 1,296.05 | 632.32 | 3,975.10 |
| West Virginia | 903.65 | 381.51 | 1,870.65 |
| North Carolina | 1,088.43 | 525.75 | 2,026.91 |
| South Carolina | 1,336.34 | 579.71 | 2,250.76 |
| Georgia | 1,280.32 | 494.35 | 3,560.27 |
| Florida | 1,093.82 | 616.52 | 3,417.48 |
| **South Atlantic** | **1,175.55** | **553.93** | **3,149.23** |
| Kentucky | 991.95 | 412.36 | 1,658.62 |
| Tennessee | 1,190.91 | 595.75 | 2,659.37 |
| Alabama | 1,333.96 | 572.62 | 2,567.78 |
| Mississippi | 1,278.24 | 561.72 | 2,686.34 |
| **East South Central** | **1,195.14** | **511.85** | **2,284.45** |
| Arkansas | 1,116.33 | 497.79 | 2,440.47 |
| Louisiana | 1,485.03 | 551.75 | 2,931.33 |
| Oklahoma | 960.19 | 463.74 | 2,512.56 |
| Texas | 1,493.33 | 622.25 | 3,175.94 |
| **West South Central** | **1,384.02** | **575.86** | **2,986.43** |
| Montana | 503.74 | 238.02 | 1,129.85 |
| Idaho | 948.28 | 413.88 | 2,101.36 |
| Wyoming | 649.04 | 210.70 | 886.14 |
| Colorado | 762.18 | 298.94 | 2,819.06 |
| New Mexico | 1,045.29 | 379.88 | 3,163.95 |
| Arizona | 1,336.10 | 587.79 | 4,014.90 |
| Utah | 1,031.19 | 436.51 | 3,447.11 |
| Nevada | 1,191.05 | 541.66 | 2,485.64 |
| **Mountain** | **967.85** | **406.37** | **2,719.16** |
| Washington | 571.08 | 347.13 | 1,665.64 |
| Oregon | 786.73 | 424.27 | 1,576.57 |
| California | 980.34 | 361.61 | 3,132.15 |
| **Pacific** | **924.79** | **366.61** | **2,826.59** |
| Alaska | 628.08 | 329.07 | 1,322.34 |
| Hawaii | 1,509.83 | 558.09 | 3,098.05 |
| **Alaska & Hawaii** | **1,469.61** | **547.89** | **3,016.16** |

Based on revenue data in Table 60 and average number of customer data in Table 53.

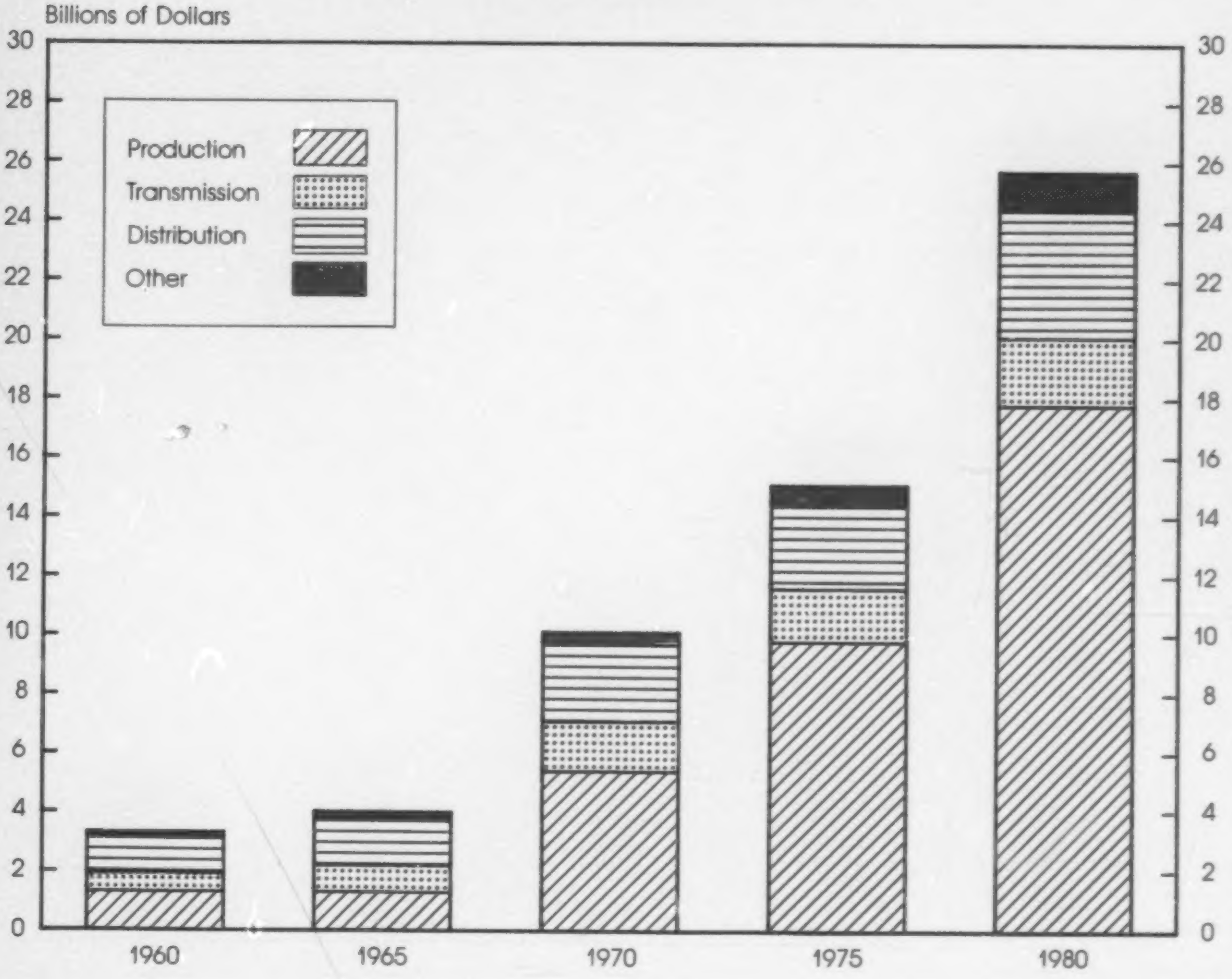
# FINANCIAL

## SECTION IX

Chart IX-A

**CONSTRUCTION EXPENDITURES**

INVESTOR-OWNED UTILITIES*



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*Excluding Alaska & Hawaii.
Based on Table 69, page 68.
Source: Edison Electric Institute based on Statistics collected from 'Electrical World.'

# TABLE 69
# CONSTRUCTION EXPENDITURES—INVESTOR-OWNED ELECTRIC UTILITIES (EXCLUDING ALASKA AND HAWAII)
## BY TYPE OF ELECTRIC UTILITY PLANT
## MILLIONS OF DOLLARS

| Year | Total | Production | Transmission | Distribution | Other |
|---|---|---|---|---|---|
| **1980** | **$25,718** | **$17,847** | **$2,271** | **$4,336** | **$1,264** |
| 1979 | 24,378 | 16,908 | 2,209 | 4,076 | 1,185 |
| 1978 | 22,393 | 15,938 | 1,933 | 3,614 | 908 |
| 1977 | 19,758 | 13,875 | 1,854 | 3,254 | 775 |
| 1976 | 16,979 | 11,512 | 1,758 | 2,844 | 865 |
| 1975 | 15,090 | 9,828 | 1,734 | 2,817 | 711 |
| 1974 | 16,350 | 10,145 | 2,060 | 3,360 | 785 |
| 1973 | 14,907 | 8,775 | 2,047 | 3,371 | 714 |
| 1972 | 13,385 | 7,931 | 1,748 | 3,073 | 633 |
| 1971 | 11,894 | 6,702 | 1,806 | 2,774 | 612 |
| 1970 | 10,145 | 5,429 | 1,680 | 2,614 | 422 |
| 1969 | $8,294 | $3,992 | $1,554 | $2,421 | $327 |
| 1968 | 7,140 | 3,189 | 1,503 | 2,135 | 313 |
| 1967 | 6,120 | 2,553 | 1,323 | 1,977 | 267 |
| 1966 | 4,932 | 1,789 | 1,137 | 1,769 | 237 |
| 1965 | 4,027 | 1,300 | 940 | 1,585 | 202 |
| 1964 | 3,551 | 1,114 | 824 | 1,424 | 189 |
| 1963 | 3,319 | 1,165 | 644 | 1,323 | 187 |
| 1962 | 3,154 | 1,078 | 609 | 1,305 | 162 |
| 1961 | 3,256 | 1,267 | 579 | 1,265 | 145 |
| 1960 | 3,331 | 1,342 | 537 | 1,300 | 152 |

In these figures an attempt has been made to eliminate capital expenditures made for the purchase of existing properties rather than for actual new construction.

Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment. The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant), as well as for new construction.

Source: Calculated by Edison Electric Institute on the basis of statistics collected by Electrical World.

# TABLE 70
# COMBINED BALANCE SHEETS—YEAR ENDED DECEMBER 31
## INVESTOR-OWNED ELECTRIC UTILITIES
### INTERCOMPANY TRANSACTIONS ELIMINATED
### MILLIONS OF DOLLARS

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| ASSETS | | | | | | |
| Utility Plant: | | | | | | |
| Electric | $265,233 | $241,401 | $216,795 | $196,010 | $177,274 | $160,782 |
| Accumulated Provision for Depreciation and Amortization | 53,324 | 49,161 | 44,211 | 39,886 | 35,870 | 32,231 |
| **Net Electric Utility Plant** | **211,909** | **192,240** | **172,584** | **156,124** | **141,404** | **128,551** |
| Nuclear Fuel | 6,704 | 5,788 | 4,749 | 3,610 | 2,770 | 1,936 |
| Accumulated Provision for Amortization of Nuclear Fuel Assemblies | 2,754 | 2,029 | 1,566 | 999 | 682 | 461 |
| **Net Nuclear Fuel** | **3,950** | **3,759** | **3,183** | **2,611** | **2,088** | **1,475** |
| **Net Total Electric Utility Plant** | **215,859** | **195,999** | **175,767** | **158,735** | **143,492** | **130,026** |
| Other | 14,673 | 13,775 | 12,700 | 12,376 | 11,678 | 11,160 |
| Accumulated Provision for Depreciation and Amortization | 4,502 | 4,130 | 3,743 | 3,517 | 3,154 | 2,893 |
| **Net Other Utility Plant** | **10,171** | **9,645** | **8,957** | **8,859** | **8,524** | **8,267** |
| Total Utility Plant | 286,610 | 260,964 | 234,244 | 211,996 | 191,722 | 173,878 |
| Accumulated Provision for Depreciation and Amortization | 60,580 | 55,320 | 49,520 | 44,402 | 39,706 | 35,585 |
| **Net Total Utility Plant** | **226,030** | **205,644** | **184,724** | **167,594** | **152,016** | **138,293** |
| Other Property and Investment | 4,593 | 4,006 | 3,262 | 2,821 | 2,454 | 2,133 |
| Total Current and Accrued Assets | 25,928 | 21,644 | 18,419 | 17,640 | 15,026 | 13,008 |
| Total Deferred Debits* | 5,064 | 4,465 | 3,274 | 2,677 | 2,087 | 1,896 |
| **Total Assets*** | **$261,615** | **$235,759** | **$209,679** | **$190,732** | **$171,583** | **$155,330** |
| LIABILITIES | | | | | | |
| Capitalization: | | | | | | |
| Common Capital Stock | $ 32,616 | $ 29,179 | $ 26,625 | $ 24,283 | $ 21,889 | $ 19,520 |
| Other Paid-In Capital Excluding Retained Earnings** | 20,509 | 18,538 | 16,458 | 14,592 | 12,319 | 10,358 |
| Retained Earnings* | 24,865 | 23,035 | 21,250 | 19,450 | 17,729 | 15,954 |
| **Total Common Capital Stock Equity*** | **77,990** | **70,752** | **64,333** | **58,325** | **51,937** | **45,832** |
| Preferred Stock | 25,755 | 23,881 | 21,565 | 20,019 | 18,384 | 16,852 |
| Long-Term Debt: | | | | | | |
| Mortgage Bonds | 88,579 | 82,014 | 76,534 | 72,462 | 67,667 | 62,871 |
| Other Long-Term Debt | 16,978 | 14,244 | 10,954 | 9,523 | 8,160 | 7,056 |
| **Total Long-Term Debt** | **105,557** | **96,258** | **87,488** | **81,985** | **75,827** | **69,927** |
| **Total Capitalization*** | **209,302** | **190,891** | **173,386** | **160,329** | **146,148** | **132,611** |
| Total Current and Accrued Liabilities | 29,564 | 25,990 | 20,511 | 16,983 | 15,435 | 15,256 |
| Contribution in Aid of Construction | 91 | 82 | 70 | 63 | 52 | 44 |
| Deferred Income Taxes | 13,341 | 10,449 | 8,838 | 7,431 | 5,938 | 4,727 |
| Deferred Investment Tax Credits | 7,133 | 6,343 | 5,253 | 4,116 | 2,834 | 1,697 |
| Other Deferred Credits and Operating Reserves† | 2,184 | 2,004 | 1,621 | 1,810 | 1,176 | 995 |
| **Total Liabilities*** | **$261,615** | **$235,759** | **$209,679** | **$190,732** | **$171,583** | **$155,330** |

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*Figures revised (1975–1979) due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings."

**Includes Premium on Common and Preferred Stock.

†"Total Deferred Credits and Operating Reserves" has been retitled "Other Deferred Credits and Operating Reserves." Deferred Investment Tax Credits, previously included in "Total Deferred Credits and Operating Reserves," are now shown as a separate item.

# TABLE 71
# COMBINED INCOME STATEMENTS – YEAR ENDED DECEMBER 31
## INVESTOR-OWNED ELECTRIC UTILITIES
### INTERCOMPANY TRANSACTIONS ELIMINATED
### MILLIONS OF DOLLARS

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| | | | ELECTRIC DEPARTMENT ONLY | | | |
| **Operating Revenues** | **$80,636** | **$68,152** | **$61,299** | **$55,142** | **$47,080** | **$41,855** |
| Operating Expenses: | | | | | | |
| Operation | 44,841 | 36,592 | 31,811 | 28,181 | 23,257 | 20,771 |
| Maintenance | 5,616 | 4,788 | 4,153 | 3,528 | 2,918 | 2,522 |
| Depreciation and Depletion | 6,079 | 5,628 | 5,120 | 4,640 | 4,217 | 3,792 |
| Amortization Charged to Operation | 40 | 33 | 31 | 14 | 9 | 12 |
| Property Losses Charged to Operation | 74 | 45 | 21 | 15 | 14 | 10 |
| Taxes Other Than Income Taxes | 5,866 | 5,300 | 4,985 | 4,649 | 4,183 | 3,755 |
| Federal Income Taxes | 1,242 | 660 | 921 | 739 | 524 | 836 |
| State Income Taxes | 307 | 244 | 271 | 225 | 178 | 158 |
| Deferred Income Taxes: | | | | | | |
| Due to Liberalized Depreciation | 1,409 | 1,331 | 1,283 | 1,070 | 979 | 1,007 |
| Due to Accelerated Amortization | 29 | 14 | 30 | 20 | 34 | (156) |
| Charges in Lieu of Taxes | 561 | 480 | 268 | 372 | 181 | 77 |
| Investment Tax Credit Adjustments* | 854 | 1,098 | 1,282 | 1,349 | 1,142 | 535 |
| **Total Operating Expenses** | **66,918** | **56,213** | **50,176** | **44,802** | **37,636** | **33,319** |
| Operating Income | $13,718 | $11,939 | $11,123 | $10,340 | $ 9,444 | $ 8,536 |
| | | | ALL DEPARTMENTS | | | |
| **Operating Revenues** | **$95,326** | **$80,021** | **$71,042** | **$63,884** | **$54,789** | **$48,236** |
| Operating Expenses: | | | | | | |
| Operation | 56,720 | 46,050 | 39,354 | 34,904 | 28,978 | 25,502 |
| Maintenance | 6,003 | 5,137 | 4,451 | 3,820 | 3,169 | 2,757 |
| Depreciation and Depletion | 6,552 | 6,043 | 5,490 | 4,995 | 4,553 | 4,104 |
| Amortization Charged to Operation | 55 | 34 | 34 | 15 | 10 | 13 |
| Property Losses Charged to Operation | 76 | 46 | 21 | 16 | 16 | 12 |
| Taxes Other Than Income Taxes | 6,580 | 5,897 | 5,542 | 5,180 | 4,676 | 4,188 |
| Federal Income Taxes | 1,328 | 821 | 1,086 | 819 | 641 | 824 |
| State Income Taxes | 331 | 267 | 290 | 242 | 196 | 168 |
| Deferred Income Taxes: | | | | | | |
| Due to Liberalized Depreciation | 1,480 | 1,383 | 1,310 | 1,107 | 1,008 | 1,069 |
| Due to Accelerated Amortization | 30 | 14 | 32 | 24 | 44 | (174) |
| Charges in Lieu of Taxes | 647 | 478 | 287 | 401 | 181 | 114 |
| Investment Tax Credit Adjustments* | 897 | 1,134 | 1,315 | 1,380 | 1,193 | 567 |
| **Total Operating Expenses** | **80,699** | **67,304** | **59,212** | **52,903** | **44,665** | **39,144** |
| Operating Income | 14,627 | 12,717 | 11,830 | 10,981 | 10,124 | 9,092 |
| Other Income (Non-Operating) Net | 1,232 | 918 | 715 | 579 | 529 | 416 |
| Allowance for Other Funds Used During Construction | 2,533 | 2,189 | 1,684 | 1,425 | 1,896 | 1,694 |
| **Income Before Interest Charges (Gross Income)** | **18,392** | **15,824** | **14,229** | **12,985** | **12,549** | **11,202** |
| Interest Charges: | | | | | | |
| Interest on Long-Term Debt | 8,488 | 7,198 | 6,343 | 5,735 | 5,202 | 4,614 |
| Interest on Short-Term Debt | 1,142 | 597 | 314 | 221 | 226 | 433 |
| Amortization of Debt Discount Expense and Premium | 44 | 35 | 33 | 28 | 21 | 17 |
| Other Interest Expense | 285 | 218 | 154 | 133 | 117 | 117 |
| Allowance for Borrowed Funds Used During Construction – Credit | (2,094) | (1,538) | (1,223) | (942) | – | – |
| Total Interest Charges | 7,865 | 6,510 | 5,621 | 5,175 | 5,566 | 5,181 |
| **Income Before Extraordinary Items** | **10,527** | **9,314** | **8,608** | **7,810** | **6,983** | **6,021** |
| Extraordinary Items | 2 | (12) | (34) | 3 | 7 | (19) |
| **Net Income** | **10,529** | **9,302** | **8,574** | **7,813** | **6,990** | **6,002** |
| Preferred Dividend Charges | 2,042 | 1,750 | 1,592 | 1,488 | 1,347 | 1,143 |
| Available for Common Stock | 8,487 | 7,552 | 6,982 | 6,325 | 5,643 | 4,859 |
| Common Dividends | 6,429 | 5,587 | 4,956 | 4,322 | 3,771 | 3,272 |
| **Net Income After Dividends** | **$ 2,058** | **$ 1,965** | **$ 2,026** | **$ 2,003** | **$ 1,872** | **$ 1,587** |

*Investment Tax Credit Adjustments, previously included in "Charges in Lieu of Taxes," are now shown as a separate item.

( ) Denotes credit or negative value.

# TABLE 72
# DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES
## INVESTOR-OWNED ELECTRIC UTILITIES
### MILLIONS OF DOLLARS

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| Production | $40,396 | $32,575 | $28,137 | $24,746 | $19,949 | $17,727 |
| Transmission and Distribution | 3,761 | 3,360 | 3,006 | 2,702 | 2,459 | 2,239 |
| Customer Accounts | 1,592 | 1,362 | 1,312 | 1,256 | 1,155 | 970 |
| Customer Service and Information | 302 | 279r | * | * | * | * |
| Sales | 33 | 45r | 179 | 86 | 82 | 137 |
| Administrative and General | 4,373 | 3,759r | 3,330 | 2,919 | 2,530 | 2,220 |
| **Total Operation & Maintenance Expenses** | **$50,457** | **$41,380** | **$35,964** | **$31,709** | **$26,175** | **$23,293** |
| Cost of Fuel** | $31,622 | $26,281 | $22,225 | $20,122 | $16,239 | $14,451 |

*Data for this item not reported separately prior to 1979.
**Included in "Total Operation & Maintenance Expenses."
r Revised.

# TABLE 73
# DETAIL OF TAXES — ELECTRIC DEPARTMENT ONLY
## INVESTOR-OWNED ELECTRIC UTILITIES
### MILLIONS OF DOLLARS

| | 1980 | | 1979 | | 1978 | |
|---|---|---|---|---|---|---|
| | Amount | % of Oper. Revenue | Amount | % of Oper. Revenue | Amount | % of Oper. Revenue |
| Federal Taxes | | | | | | |
| Income | $1,242 | 1.5% | $ 660 | 1.0% | $ 921 | 1.5% |
| Deferred Taxes on Income | 1,347 | 1.7 | 1,255 | 1.8 | 1,228 | 2.0 |
| Other Charges in Lieu of Taxes* | 1,392 | 1.7 | 1,574 | 2.3 | 1,535 | 2.5 |
| Miscellaneous Taxes | 1,492 | 1.9 | 379 | 0.6 | 322 | 0.5 |
| Total Federal Taxes Charged to Income | 5,473 | 6.8 | 3,868 | 5.7 | 4,006 | 6.5 |
| State and Local Taxes | 4,795 | 5.9 | 5,259 | 7.7 | 5,034 | 8.2 |
| **Total Taxes Charged to Income** | **$10,268** | **12.7%** | **$9,127** | **13.4%** | **$9,040** | **14.7%** |

| | 1977 | | 1976 | | 1975 | |
|---|---|---|---|---|---|---|
| | Amount | % of Oper. Revenue | Amount | % of Oper. Revenue | Amount | % of Oper. Revenue |
| Federal Taxes | | | | | | |
| Income | $ 739 | 1.4% | $ 524 | 1.1% | $ 836 | 2.0% |
| Deferred Taxes on Income | 1,005 | 1.8 | 940 | 2.0 | 793 | 1.9 |
| Other Charges in Lieu of Taxes* | 1,715 | 3.1 | 1,310 | 2.8 | 612 | 1.4 |
| Miscellaneous Taxes | 328 | 0.6 | 283 | 0.6 | 294 | 0.7 |
| Total Federal Taxes Charged to Income | 3,787 | 6.9 | 3,057 | 6.5 | 2,535 | 6.0 |
| State and Local Taxes | 4,637 | 8.4 | 4,164 | 8.8 | 3,677 | 8.8 |
| **Total Taxes Charged to Income** | **$8,424** | **15.3%** | **$7,221** | **15.3%** | **$6,212** | **14.8%** |

*Includes investment tax credits reported as charges to income for the current year.

# TABLE 74
# CAPITALIZATION AND CAPITALIZATION RATIOS
## INVESTOR-OWNED ELECTRIC UTILITIES
### MILLIONS OF DOLLARS

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| CAPITALIZATION OUTSTANDING | | | | | | |
| Mortgage Bonds | $ 88,579 | $ 82,014 | $ 76,534 | $ 72,462 | $ 67,667 | $ 62,871 |
| Other Long-Term Debt | 16,978 | 14,244 | 10,954 | 9,523 | 8,160 | 7,056 |
| **Total Long-Term Debt** | **105,557** | **96,258** | **87,488** | **81,985** | **75,827** | **69,927** |
| Preferred Stock | 25,755 | 23,881 | 21,565 | 20,019 | 18,384 | 16,852 |
| Common Capital Stock | 32,616 | 29,179 | 26,625 | 24,283 | 21,889 | 19,520 |
| Other Paid-In Capital Excluding Retained Earnings* | 20,509 | 18,538 | 16,458 | 14,592 | 12,319 | 10,358 |
| Retained Earnings** | 24,865 | 23,035 | 21,250 | 19,450 | 17,729 | 15,954 |
| **Total Capitalization**** | **$209,302** | **$190,891** | **$173,386** | **$160,329** | **$146,148** | **$132,611** |
| CAPITALIZATION RATIOS** | | | | | | |
| Mortgage Bonds | 42.3% | 42.9% | 44.2% | 45.2% | 46.3% | 47.4% |
| Other Long-Term Debt | 8.1 | 7.5 | 6.3 | 5.9 | 5.6 | 5.3 |
| **Total Long-Term Debt** | **50.4** | **50.4** | **50.5** | **51.1** | **51.9** | **52.7** |
| Preferred Stock | 12.3 | 12.5 | 12.4 | 12.5 | 12.6 | 12.7 |
| Common Capital Stock Equity | 37.3 | 37.1 | 37.1 | 36.4 | 35.5 | 34.6 |
| **Total Capitalization** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** | **100.0%** |

*Includes Premium on Common and Preferred Stock.

**Figures revised (1975–1979) due to reclassification of Capital Stock Expense. Refer to Table 70 for specific details.

# TABLE 75
# PUBLIC UTILITY LONG-TERM FINANCING—INVESTOR-OWNED UTILITIES
## BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY
## 1975–1980—THOUSANDS OF DOLLARS

| | 1980 | 1979 | 1978 | 1977 | 1976 | 1975 |
|---|---|---|---|---|---|---|
| ELECTRIC UTILITIES | | | | | | |
| LONG-TERM DEBT: | | | | | | |
| New Capital | $ 7,847,006 | $ 7,223,256 | $ 6,867,909 | $ 7,388,630 | $ 6,199,590 | $ 6,517,020 |
| Refunding | 461,294 | 638,804 | 334,971 | 792,550 | 529,750 | 1,225,848 |
| Divestment | — | — | — | — | — | — |
| **Total Long-Term Debt** | **8,308,300** | **7,862,060** | **7,202,880** | **8,181,180** | **6,729,340** | **7,742,868** |
| PREFERRED STOCK: | | | | | | |
| New Capital | 2,003,000 | 2,288,848 | 1,671,500 | 1,873,341 | 1,567,337 | 2,121,281 |
| Refunding | 7,500 | 75,300 | 107,405 | 122,740 | 48,170 | 2,219 |
| Divestment | — | — | — | — | — | — |
| **Total Preferred** | **2,010,500** | **2,364,148** | **1,778,905** | **1,996,081** | **1,615,507** | **2,123,500** |
| COMMON STOCK: | | | | | | |
| New Capital | 4,063,303 | 3,356,088 | 3,316,523 | 3,792,686 | 3,836,756 | 3,374,107 |
| Refunding | — | — | 61,600 | 5,000 | 39,775 | — |
| Divestment | — | — | — | — | — | — |
| **Total Common** | **4,063,303** | **3,356,088** | **3,378,123** | **3,797,686** | **3,876,531** | **3,374,107** |
| TOTAL CAPITAL: | | | | | | |
| New Capital | 13,913,309 | 12,868,192 | 11,855,932 | 13,054,657 | 11,603,683 | 12,012,408 |
| Refunding | 468,794 | 714,104 | 503,976 | 920,290 | 617,695 | 1,228,067 |
| Divestment | — | — | — | — | — | — |
| **Total Capital** | **$14,382,103** | **$13,582,296** | **$12,359,908** | **$13,974,947** | **$12,221,378** | **$13,240,475** |
| GAS UTILITIES* | | | | | | |
| LONG-TERM DEBT: | | | | | | |
| New Capital | $ 924,500 | $ 808,211 | $ 543,650 | $ 663,970 | $ 1,685,864 | $ 1,214,002 |
| Refunding | 10,000 | 203,789 | 43,350 | 105,030 | 95,636 | 101,698 |
| Divestment | — | — | — | — | — | — |
| **Total Long-Term Debt** | **934,500** | **1,012,000** | **587,000** | **769,000** | **1,781,500** | **1,315,700** |
| PREFERRED STOCK: | | | | | | |
| New Capital | 276,000 | 215,000 | 218,550 | 85,300 | 330,250 | 319,000 |
| Refunding | — | — | — | 3,200 | — | — |
| Divestment | — | — | — | — | — | — |
| **Total Preferred** | **276,000** | **215,000** | **218,550** | **88,500** | **330,250** | **319,000** |
| COMMON STOCK: | | | | | | |
| New Capital | 351,000 | 193,505 | 145,594 | 89,832 | 180,904 | 307,788 |
| Refunding | — | — | — | — | 6,300 | 1,750 |
| Divestment | — | 235,227 | — | — | — | — |
| **Total Common** | **351,000** | **428,732** | **145,594** | **89,832** | **187,204** | **309,538** |
| TOTAL CAPITAL: | | | | | | |
| New Capital | 1,551,500 | 1,216,716 | 907,794 | 839,102 | 2,197,018 | 1,840,790 |
| Refunding | 10,000 | 203,789 | 43,350 | 108,230 | 101,936 | 103,448 |
| Divestment | — | 235,227 | — | — | — | — |
| **Total Capital** | **$ 1,561,500** | **$ 1,655,732** | **$ 951,144** | **$ 947,332** | **$ 2,298,954** | **$ 1,944,238** |
| ALL OTHER UTILITIES† | | | | | | |
| LONG-TERM DEBT: | | | | | | |
| New Capital | $ 5,775,000 | $ 3,841,750 | $ 2,829,500 | $ 1,778,379 | $ 1,811,275 | $ 3,122,413 |
| Refunding | 240,000 | 110,000 | 275,000 | 1,066,621 | 488,725 | 150,487 |
| Divestment | — | — | — | — | — | — |
| **Total Long-Term Debt** | **6,015,000** | **3,951,750** | **3,104,500** | **2,845,000** | **2,300,000** | **3,272,900** |
| PREFERRED STOCK: | | | | | | |
| New Capital | 83,000 | 130,000 | 164,650 | 1,000 | 175,259 | 108,000 |
| Refunding | — | — | 20,000 | 16,500 | 4,741 | 2,000 |
| Divestment | — | — | — | — | — | — |
| **Total Preferred** | **83,000** | **130,000** | **184,650** | **17,500** | **180,000** | **110,000** |
| COMMON STOCK: | | | | | | |
| New Capital | 40,916 | 415,659 | 35,266 | 917,342 | 659,875 | 562,038 |
| Refunding | — | 76,556 | 2,550 | — | — | — |
| Divestment | — | — | — | — | — | — |
| **Total Common** | **40,916** | **492,215** | **37,816** | **917,342** | **659,875** | **562,038** |
| TOTAL CAPITAL: | | | | | | |
| New Capital | 5,898,916 | 4,387,409 | 3,029,416 | 2,696,721 | 2,646,409 | 3,792,451 |
| Refunding | 240,000 | 186,556 | 297,550 | 1,083,121 | 493,466 | 152,487 |
| Divestment | — | — | — | — | — | — |
| **Total Capital** | **$ 6,138,916** | **$ 4,573,965** | **$ 3,326,966** | **$ 3,779,842** | **$ 3,139,875** | **$ 3,944,938** |
| TOTAL UTILITY FINANCING | | | | | | |
| LONG-TERM DEBT: | | | | | | |
| New Capital | $14,546,506 | $11,873,217 | $10,241,059 | $ 9,830,979 | $ 9,696,729 | $10,853,435 |
| Refunding | 711,294 | 952,593 | 653,321 | 1,964,201 | 1,114,111 | 1,478,033 |
| Divestment | — | — | — | — | — | — |
| **Total Long-Term Debt** | **15,257,800** | **12,825,810** | **10,894,380** | **11,795,180** | **10,810,840** | **12,331,468** |
| PREFERRED STOCK: | | | | | | |
| New Capital | 2,362,000 | 2,633,848 | 2,054,700 | 1,959,641 | 2,072,846 | 2,548,281 |
| Refunding | 7,500 | 75,300 | 127,405 | 142,440 | 52,911 | 4,219 |
| Divestment | — | — | — | — | — | — |
| **Total Preferred** | **2,369,500** | **2,709,148** | **2,182,105** | **2,102,081** | **2,125,757** | **2,552,500** |
| COMMON STOCK: | | | | | | |
| New Capital | 4,455,219 | 3,965,252 | 3,497,383 | 4,799,860 | 4,677,535 | 4,243,933 |
| Refunding | — | 76,556 | 64,150 | 5,000 | 46,075 | 1,750 |
| Divestment | — | 235,227 | — | — | — | — |
| **Total Common** | **4,455,219** | **4,277,035** | **3,561,533** | **4,804,860** | **4,723,610** | **4,245,683** |
| TOTAL CAPITAL: | | | | | | |
| New Capital | 21,363,725 | 18,472,317 | 15,793,142 | 16,590,480 | 16,447,110 | 17,645,649 |
| Refunding | 718,794 | 1,104,449 | 844,876 | 2,111,641 | 1,213,097 | 1,484,002 |
| Divestment | — | 235,227 | — | — | — | — |
| **Total Capital** | **$22,082,519** | **$19,811,993** | **$16,638,018** | **$18,702,121** | **$17,660,207** | **$19,129,651** |

Classification as to type of utility is based upon predominant source of revenue. *Includes gas pipe line companies.

†"Other Utilities" are water, transit, telephone and telegraph. Does not include railroads. Source: Ebasco Business Consulting Co.

Note: Includes negotiated sales of pollution control bonds 1980, $982.4 million; 1979, $1,297.8 million; 1978, $966.6 million; 1977, $1,804.2 million; 1976, $1,027.8 million; and 1975, $575.9 million.

# TABLE 76
# WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS
## 1960–1980

| | Utility Bonds | | | | | Preferred Stocks |
|---|---|---|---|---|---|---|
| Year | Electric and Gas | Telephone | Water Works | All Utilities | Industrial Bonds | All Utilities |
| **1980** | **13.46%** | **12.59%** | .... | **13.09%** | **11.66%** | **12.28%** |
| 1979 | 10.85 | 10.29 | .... | 10.64 | 9.49 | 9.76 |
| 1978 | 9.30 | 9.07 | .... | 9.22 | 8.98 | 9.03 |
| 1977 | 8.43 | 8.21 | .... | 8.38 | 8.15 | 8.43 |
| 1976 | 8.92 | 8.41 | .... | 8.80 | 8.61 | 9.12 |
| 1975 | 9.97 | 9.27 | .... | 9.76 | 9.12 | 10.63 |
| 1974 | 9.59 | 9.22 | .... | 9.21 | 8.87 | 9.95 |
| 1973 | 7.91 | 7.87 | .... | 7.88 | 7.86 | 7.50 |
| 1972 | 7.50 | 7.36 | .... | 7.46 | 7.51 | 7.53 |
| 1971 | 7.72 | 7.58 | .... | 7.71 | 7.80 | 7.74 |
| 1970 | 8.79 | 8.75 | .... | 8.85 | 8.86 | 9.01 |
| 1969 | 7.98 | 8.00 | .... | 7.99 | 7.84 | 7.75 |
| 1968 | 6.80 | 6.55 | 7.17% | 6.72 | 6.64 | 6.44 |
| 1967 | 6.07 | 5.77 | 6.01 | 6.01 | 5.79 | 6.03 |
| 1966 | 5.53 | 5.51 | 5.02 | 5.61 | 5.52 | 5.37 |
| 1965 | 4.61 | 4.61 | 4.79 | 4.68 | 4.80 | .... |
| 1964 | 4.55 | 4.55 | 4.61 | 4.56 | 4.51 | 4.74 |
| 1963 | 4.40 | 4.29 | 4.90 | 4.39 | 4.42 | 4.72 |
| 1962 | 4.40 | 4.55 | 4.89 | 4.44 | 4.53 | 4.63 |
| 1961 | 4.72 | 4.63 | 5.39 | 4.70 | 4.70 | 5.16 |
| 1960 | 4.72 | 4.76 | 5.47 | 4.84 | 4.67 | 5.43 |

Source: Moody's Investors Service.

# TABLE 77
# MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS
## BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS
## 1970–1980

| | BONDS | | | | | PREFERRED STOCKS | | | COMMON STOCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Over-all* Average | Rating | | | | | | | High Quality | | Good Quality | | Medium Quality | |
| End of Month | | Aaa | Aa | A | Baa | High Quality | Good Quality | Medium Quality | Yield | E/P Ratio† | Yield | E/P Ratio† | Yield | E/P Ratio† |
| 1980 | | | | | | | | | | | | | | |
| December | 14.11% | 13.18% | 13.91% | 14.14% | 15.20% | 13.15% | 14.01% | 14.56% | 11.49% | 15.65% | 12.36% | 16.86% | 13.27% | 17.01% |
| September | 13.68 | 12.91 | 13.49 | 13.74 | 14.58 | 12.02 | 12.92 | 13.76 | 11.37 | 15.46 | 11.83 | 16.01 | 12.77 | 15.71 |
| June | 12.04 | 11.30 | 11.84 | 12.22 | 12.81 | 10.59 | 10.97 | 12.05 | 10.24 | 13.41 | 10.65 | 14.36 | 11.52 | 13.22 |
| March | 14.57 | 13.35 | 14.57 | 14.96 | 15.41 | 13.09 | 14.74 | 15.22 | 12.15 | 15.50 | 12.52 | 18.27 | 13.93 | 19.11 |
| 1979 | | | | | | | | | | | | | | |
| December | 11.85 | 11.09 | 11.62 | 11.97 | 12.71 | 10.86 | 11.49 | 12.75 | 10.57 | 15.89 | 11.00 | 15.61 | 12.23 | 14.86 |
| September | 10.39 | 9.75 | 10.10 | 10.62 | 11.08 | 9.60 | 10.34 | 10.97 | 9.81 | 14.82 | 10.37 | 15.29 | 10.92 | 13.71 |
| June | 9.90 | 9.39 | 9.73 | 10.04 | 10.45 | 9.03 | 9.55 | 10.49 | 9.18 | 13.87 | 9.83 | 14.24 | 10.31 | 12.93 |
| March | 10.02 | 9.60 | 9.90 | 10.06 | 10.51 | 9.10 | 9.63 | 10.33 | 9.13 | 13.73 | 9.66 | 14.16 | 10.04 | 13.04 |
| 1978 | | | | | | | | | | | | | | |
| December | 9.82 | 9.47 | 9.65 | 9.84 | 10.31 | 8.94 | 9.65 | 10.48 | 9.38 | 13.19 | 9.89 | 13.89 | 10.01 | 12.77 |
| September | 9.23 | 8.91 | 9.15 | 9.29 | 9.57 | 8.43 | 8.82 | 9.62 | 8.37 | 11.80 | 8.88 | 12.82 | 9.15 | 11.99 |
| June | 9.36 | 8.99 | 9.24 | 9.46 | 9.73 | 8.84 | 9.39 | 9.81 | 8.35 | 11.87 | 8.95 | 12.74 | 9.20 | 12.41 |
| March | 8.97 | 8.61 | 8.80 | 8.99 | 9.47 | 8.35 | 8.79 | 9.24 | 8.35 | 12.46 | 8.82 | 12.66 | 8.86 | 11.39 |
| 1977 | | | | | | | | | | | | | | |
| December | 8.75 | 8.39 | 8.63 | 8.77 | 9.21 | 8.14 | 8.59 | 9.03 | 7.55 | 12.32 | 8.04 | 12.30 | 8.43 | 11.27 |
| September | 8.47 | 8.12 | 8.37 | 8.48 | 8.89 | 7.95 | 8.32 | 8.87 | 7.29 | 12.49 | 7.83 | 11.96 | 8.25 | 11.84 |
| June | 8.46 | 8.07 | 8.29 | 8.52 | 8.97 | 8.03 | 8.47 | 8.92 | 7.23 | 12.34 | 7.57 | 11.45 | 8.23 | 11.86 |
| March | 8.70 | 8.26 | 8.55 | 8.77 | 9.22 | 8.21 | 8.75 | 9.01 | 7.32 | 13.01 | 7.74 | 12.04 | 8.68 | 12.77 |
| 1976 | | | | | | | | | | | | | | |
| December | 8.54 | 8.05 | 8.37 | 8.59 | 9.16 | 8.28 | 8.80 | 9.15 | 7.18 | 11.36 | 7.79 | 11.73 | 8.23 | 11.17 |
| September | 8.87 | 8.57 | 8.65 | 8.81 | 9.45 | 8.58 | 9.04 | 9.45 | 7.39 | 11.31 | 7.82 | 11.44 | 8.60 | 11.26 |
| June | 9.36 | 8.87 | 9.08 | 9.43 | 10.06 | 8.92 | 9.46 | 9.79 | 8.40 | 12.72 | 8.84 | 12.99 | 9.28 | 12.15 |
| March | 9.34 | 8.67 | 9.07 | 9.58 | 10.04 | 8.92 | 9.52 | 9.73 | 8.13 | 11.99 | 8.51 | 13.08 | 9.11 | 12.15 |
| 1975 | | | | | | | | | | | | | | |
| December | 9.79 | 8.94 | 9.44 | 10.03 | 10.75 | 9.41 | 10.39 | 10.67 | 7.47 | 10.75 | 7.85 | 11.04 | 9.61 | 14.18 |
| September | 10.01 | 9.25 | 9.66 | 10.24 | 10.90 | 9.78 | 10.71 | 11.11 | 8.34 | 12.05 | 8.78 | 12.30 | 11.01 | 15.64 |
| June | 9.79 | 8.99 | 9.37 | 9.97 | 10.84 | 9.34 | 10.88 | 11.12 | 7.22 | 10.54 | 8.07 | 11.03 | 10.18 | 13.25 |
| March | 9.72 | 8.99 | 9.29 | 9.83 | 10.75 | 9.31 | 10.48 | 11.00 | 8.23 | 12.19 | 9.31 | 12.96 | 12.46 | 14.89 |
| 1974 | | | | | | | | | | | | | | |
| December | 10.13 | 9.08 | 9.47 | 10.44 | 11.52 | 10.17 | 11.20 | 11.72 | 8.88 | 13.61 | 10.81 | 17.95 | 15.51 | 18.49 |
| September | 10.28 | 9.54 | 10.12 | 10.64 | 10.80 | 10.41 | 10.94 | 11.70 | 9.05 | 14.22 | 10.62 | 17.60 | 14.00 | 16.91 |
| June | 9.22 | 8.71 | 9.06 | 9.50 | 9.60 | 9.32 | 9.64 | 10.00 | 8.79 | 13.47 | 10.16 | 15.86 | 12.16 | 15.48 |
| March | 8.56 | 8.25 | 8.48 | 8.60 | 8.92 | 8.06 | 8.61 | 8.74 | 7.51 | 11.51 | 7.99 | 11.70 | 8.66 | 11.19 |
| 1973 | | | | | | | | | | | | | | |
| December | 8.21 | 7.90 | 8.10 | 8.24 | 8.59 | 8.04 | 8.35 | 8.24 | 8.06 | 11.27 | 8.24 | 11.19 | 7.75 | 10.91 |
| September | 8.07 | 7.76 | 7.92 | 8.08 | 8.52 | 7.72 | 8.04 | 8.08 | 6.84 | 9.52 | 6.92 | 10.32 | 7.08 | 9.97 |
| June | 7.73 | 7.53 | 7.63 | 7.78 | 7.97 | 7.53 | 7.62 | 7.75 | 6.88 | 9.65 | 6.93 | 10.19 | 7.26 | 10.38 |
| March | 7.67 | 7.44 | 7.52 | 7.69 | 8.01 | 7.39 | 7.53 | 7.60 | 6.42 | 9.34 | 6.69 | 9.83 | 6.72 | 9.80 |
| 1972 | | | | | | | | | | | | | | |
| December | 7.48 | 7.29 | 7.39 | 7.51 | 7.74 | 7.32 | 7.56 | 7.77 | 5.52 | 8.07 | 6.07 | 8.91 | 6.27 | 9.05 |
| September | 7.63 | 7.42 | 7.50 | 7.64 | 7.96 | 7.37 | 7.61 | 7.82 | 6.12 | 9.18 | 6.47 | 9.72 | 6.94 | 9.58 |
| June | 7.77 | 7.41 | 7.57 | 780 | 8.30 | 7.28 | 7.43 | 7.71 | 6.37 | 9.31 | 6.73 | 9.93 | 6.72 | 9.40 |
| March | 7.81 | 7.53 | 7.69 | 7.76 | 8.25 | 6.99 | 7.26 | 7.58 | 5.96 | 8.55 | 6.23 | 8.88 | 6.42 | 8.87 |
| 1971 | | | | | | | | | | | | | | |
| December | 7.87 | 7.50 | 7.76 | 7.80 | 8.40 | 7.20 | 7.48 | 7.87 | 5.65 | 7.84 | 5.81 | 8.25 | 6.06 | 8.31 |
| September | 8.10 | 7.76 | 7.95 | 8.23 | 8.45 | 7.28 | 7.55 | 8.06 | 6.23 | 8.56 | 6.18 | 8.99 | 6.46 | 8.98 |
| June | 8.35 | 7.98 | 8.20 | 8.45 | 8.77 | 7.31 | 7.58 | 8.13 | 5.95 | 8.00 | 5.65 | 7.91 | 6.17 | 8.32 |
| March | 8.03 | 7.56 | 7.98 | 7.99 | 8.59 | 6.91 | 7.11 | 7.74 | 5.55 | 7.51 | 5.36 | 7.71 | 5.80 | 7.83 |
| 1970 | | | | | | | | | | | | | | |
| December | 8.29 | 7.80 | 8.20 | 8.23 | 8.91 | 7.30 | 7.55 | 8.43 | 5.77 | 7.69 | 5.23 | 7.52 | 5.89 | 7.95 |
| September | 8.75 | 8.33 | 8.63 | 8.79 | 9.24 | 7.76 | 8.00 | 8.56 | 6.38 | 8.76 | 6.15 | 8.99 | 6.75 | 8.92 |
| June | 9.20 | 8.89 | 9.00 | 9.22 | 9.67 | 7.84 | 8.13 | 8.56 | 6.88 | 9.51 | 6.85 | 10.24 | 7.36 | 9.96 |
| March | 8.37 | 8.10 | 8.18 | 8.26 | 8.94 | 7.26 | 7.47 | 8.43 | 5.62 | 7.71 | 5.29 | 7.99 | 6.14 | 8.08 |

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.
*Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.
†Ratio in percent is obtained by dividing earnings per share by market price per share.
Source: Moody's Investors Service.

# TABLE 78
# MOODY'S 24 UTILITY COMMON STOCKS – END-OF-MONTH AVERAGES

| Year | Average | January | February | March | April | May | June | July | August | September | October | November | December |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MARKET PRICE – WEIGHTED AVERAGE – $ PER SHARE | | | | | | | |
| **1981** | ... | **53.19** | **52.61** | **54.43** | **53.43** | **54.00** | **56.04** | **56.33** | ... | ... | ... | ... | ... |
| 1980 | 54.80 | 54.57 | 49.93 | 50.16 | 57.14 | 58.51 | 60.08 | 57.83 | 56.40 | 54.51 | 52.63 | 51.44 | 54.42 |
| 1979 | 60.28 | 63.99 | 62.14 | 62.36 | 58.69 | 60.35 | 61.03 | 61.41 | 62.05 | 59.79 | 55.84 | 59.27 | 56.41 |
| 1978 | 63.54 | 65.23 | 64.66 | 64.95 | 63.46 | 63.77 | 63.56 | 65.39 | 65.16 | 64.90 | 60.10 | 61.54 | 59.75 |
| 1977 | 67.55 | 66.45 | 64.90 | 64.84 | 66.03 | 67.36 | 70.23 | 70.56 | 67.91 | 68.53 | 66.82 | 68.76 | 68.19 |
| 1976 | 60.10 | 60.68 | 57.82 | 57.32 | 57.76 | 55.35 | 57.07 | 58.62 | 60.96 | 63.45 | 61.85 | 64.11 | 66.29 |
| | | | | | | DIVIDEND RATE – WEIGHTED AVERAGE – $ PER SHARE | | | | | | | |
| **1981** | ... | **6.83** | **6.85** | **6.85** | **6.87** | **6.91** | **6.96** | **6.99** | ... | ... | ... | ... | ... |
| 1980 | 6.58 | 6.45 | 6.52 | 6.52 | 6.53 | 6.56 | 6.58 | 6.59 | 6.60 | 6.65 | 6.65 | 6.67 | 6.67 |
| 1979 | 6.22 | 6.07 | 6.07 | 6.16 | 6.16 | 6.17 | 6.20 | 6.22 | 6.26 | 6.31 | 6.32 | 6.33 | 6.34 |
| 1978 | 5.81 | 5.76 | 5.77 | 5.77 | 5.78 | 5.78 | 5.79 | 5.80 | 5.80 | 5.83 | 5.83 | 5.87 | 5.98 |
| 1977 | 5.54 | 5.39 | 5.40 | 5.51 | 5.52 | 5.54 | 5.55 | 5.87 | 5.57 | 5.57 | 5.58 | 5.59 | 5.68 |
| 1976 | 5.18 | 5.11 | 5.13 | 5.14 | 5.15 | 5.16 | 5.18 | 5.18 | 5.18 | 5.20 | 5.22 | 5.25 | 5.25 |
| | | | | | | YIELD – % | | | | | | | |
| **1981** | ... | **12.84** | **13.02** | **12.59** | **12.86** | **12.80** | **12.42** | **12.41** | ... | ... | ... | ... | ... |
| 1980 | 12.01 | 11.82 | 13.06 | 13.00 | 11.43 | 11.21 | 10.95 | 11.40 | 11.70 | 12.20 | 12.64 | 12.97 | 12.26 |
| 1979 | 10.34 | 9.49 | 9.77 | 9.88 | 10.50 | 10.22 | 10.16 | 10.13 | 10.09 | 10.55 | 11.32 | 10.68 | 11.24 |
| 1978 | 9.14 | 8.83 | 8.92 | 8.88 | 9.11 | 9.06 | 9.11 | 8.87 | 8.90 | 8.98 | 9.70 | 9.54 | 10.01 |
| 1977 | 8.20 | 8.11 | 8.32 | 8.50 | 8.36 | 8.22 | 7.90 | 7.89 | 8.20 | 8.13 | 8.35 | 8.13 | 8.33 |
| 1976 | 8.62 | 8.42 | 8.87 | 8.97 | 8.92 | 9.32 | 9.08 | 8.84 | 8.50 | 8.20 | 8.44 | 8.19 | 7.92 |

EARNINGS – WEIGHTED AVERAGE – $ PER SHARE

| | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
|---|---|---|---|---|
| **1981** | **9.35** | ... | ... | ... |
| 1980 | 8.69 | 8.58 | 8.75 | 8.98 |
| 1979 | 8.87 | 8.88 | 9.20 | 8.95 |
| 1978 | 8.27 | 8.37 | 8.36 | 8.59 |
| 1977 | 8.89 | 8.91 | 8.90 | 8.64 |
| 1976 | 7.81 | 7.64 | 7.86 | 8.15 |

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.

Source: Moody's Investors Service.

# ECONOMICS AND OTHER

## SECTION X

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### TABLE 82
### CONSUMER PRICE INDEX, 1957–1980
### 1967 Equals 100

| | All Items | | Food and Beverages | | Housing | |
|---|---|---|---|---|---|---|
| Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year |
| **1980*** | **246.8** | **13.5** | **248.0** | **8.5** | **263.5** | **15.8** |
| 1979* | 217.4 | 11.3 | 228.5 | 10.8 | 227.6 | 12.2 |
| 1978* | 195.4 | 7.7 | 206.3 | 9.7 | 202.8 | 8.7 |
| 1977 | 181.5 | 6.5 | 188.0 | 6.0 | 186.5 | 6.8 |
| 1976 | 170.5 | 5.8 | 177.4 | 3.1 | 174.6 | 6.1 |
| 1975 | 161.2 | 9.1 | 172.1 | 8.4 | 164.5 | 10.6 |
| 1974 | 147.7 | 11.0 | 158.7 | 13.8 | 148.8 | 11.3 |
| 1973 | 133.1 | 6.2 | 139.5 | 13.2 | 133.7 | 4.4 |
| 1972 | 125.3 | 3.3 | 123.2 | 4.1 | 128.1 | 3.8 |
| 1971 | 121.3 | 4.3 | 118.3 | 3.1 | 123.4 | 4.4 |
| 1970 | 116.3 | 5.9 | 114.7 | 5.4 | 118.2 | 7.1 |
| 1969 | 109.8 | 5.4 | 108.8 | 5.0 | 110.4 | 6.2 |
| 1968 | 104.2 | 4.2 | 103.6 | 3.6 | 104.0 | 4.0 |
| 1967 | 100.0 | 2.9 | 100.0 | ... | 100.0 | 2.9 |
| 1966 | 97.2 | 2.9 | ... | ... | 97.2 | 2.4 |
| 1965 | 94.5 | 1.7 | ... | ... | 94.9 | 1.2 |
| 1964 | 92.9 | 1.3 | ... | ... | 93.8 | 1.2 |
| 1963 | 91.7 | 1.2 | ... | ... | 92.7 | 1.1 |
| 1962 | 90.6 | 1.1 | ... | ... | 91.7 | 0.9 |
| 1961 | 89.6 | 1.0 | ... | ... | 90.9 | 0.8 |
| 1960 | 88.7 | 1.6 | ... | ... | 90.2 | 1.8 |
| 1959 | 87.3 | 0.8 | ... | ... | 88.6 | 1.0 |
| 1958 | 86.6 | 2.7 | ... | ... | 87.7 | 1.7 |
| 1957 | 84.3 | 3.6 | ... | ... | 86.2 | 3.1 |

| | Transportation | | Gas and Electricity | | Electricity | |
|---|---|---|---|---|---|---|
| Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year |
| **1980*** | **249.7** | **17.8** | **301.8** | **17.1** | **253.4** | **15.7** |
| 1979* | 212.0 | 14.3 | 257.8 | 10.8 | 219.1 | 7.7 |
| 1978* | 185.5 | 4.7 | 232.6 | 9.0 | 203.4 | 7.4 |
| 1977 | 177.2 | 7.1 | 213.4 | 12.9 | 189.3 | 6.6 |
| 1976 | 165.5 | 9.9 | 189.0 | 11.4 | 177.6 | 6.3 |
| 1975 | 150.6 | 9.4 | 169.6 | 16.3 | 167.0 | 13.2 |
| 1974 | 137.7 | 11.2 | 145.8 | 15.3 | 147.5 | 18.1 |
| 1973 | 123.8 | 3.3 | 126.4 | 4.9 | 124.9 | 5.0 |
| 1972 | 119.9 | 1.1 | 120.5 | 5.1 | 118.9 | 5.0 |
| 1971 | 118.6 | 5.2 | 114.7 | 6.9 | 113.2 | 5.6 |
| 1970 | 112.7 | 5.1 | 107.3 | 4.4 | 106.2 | 3.3 |
| 1969 | 107.2 | 3.9 | 102.8 | 1.9 | 102.8 | 1.9 |
| 1968 | 103.2 | 3.2 | 100.9 | 0.9 | 100.9 | 0.9 |
| 1967 | 100.0 | 2.9 | 100.0 | 0.4 | 100.0 | 0.9 |
| 1966 | 97.2 | 1.4 | 99.6 | 0.2 | 99.1 | 0.0 |
| 1965 | 95.9 | 1.7 | 99.4 | 0.0 | 99.1 | (0.5) |
| 1964 | 94.3 | 1.4 | 99.4 | 0.0 | 99.6 | (0.5) |
| 1963 | 93.0 | 0.5 | 99.4 | 0.0 | 100.1 | 0.0 |
| 1962 | 92.5 | 2.1 | 99.4 | 0.0 | 100.1 | 0.0 |
| 1961 | 90.6 | 1.1 | 99.4 | 0.8 | 100.1 | 0.3 |
| 1960 | 89.6 | 0.0 | 98.6 | 4.1 | 99.8 | 1.3 |
| 1959 | 89.6 | 4.2 | 94.7 | 2.5 | 98.5 | 1.4 |
| 1958 | 86.0 | 3.2 | 92.4 | 3.5 | 97.1 | 1.3 |
| 1957 | 83.3 | 5.7 | 89.3 | 1.0 | 95.9 | 0.4 |

*Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

( ) Denotes negative figure.

Source: U.S. Bureau of Labor Statistics.

# TABLE 83
# RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX
## TOTAL ELECTRIC UTILITY INDUSTRY*

| Year | Average Revenue per Residential Kwhr Used | Average Rate per Kwhr Based on Average of Typical Bills in Cities** Price per Kwhr for Monthly Use of: 100 Kwhr | 250 Kwhr | 500 Kwhr | 750 Kwhr | 1,000 Kwhr | U.S. Bureau of Labor Statistics Index Numbers Based on 1967 = 100† Electricity | Consumer Price Index‡ |
|---|---|---|---|---|---|---|---|---|
| | | (Energy Information Administration) | | | | | | |
| **1980** | **4.93¢** | .... | .... | .... | .... | .... | **253.5** | **247.0** |
| 1979 | 4.33 | .... | 6.11¢ | 5.50¢ | 4.92¢ | 4.87¢ | 225.2 | 217.7 |
| 1978 | 4.03 | 7.10¢ | 5.54 | 4.61 | 4.36 | 4.31 | 203.7 | 195.3 |
| 1977 | 3.78 | 6.87 | 5.39 | 4.44 | 4.16 | 4.10 | 189.3 | 181.5 |
| 1976 | 3.45 | 6.54 | 5.14 | 4.17 | 3.90 | 3.82 | 177.6 | 170.5 |
| 1975 | 3.21 | 6.15 | 4.82 | 3.85 | 3.57 | 3.49 | 167.0 | 161.2 |
| 1974 | 2.83 | 5.89 | 4.60 | 3.59 | 3.30 | 3.23 | 147.5 | 147.7 |
| 1973 | 2.38 | 4.99 | 3.79 | 2.82 | 2.55 | 2.49 | 124.9 | 133.1 |
| 1972 | 2.29 | 4.65 | 3.47 | 2.51 | 2.26 | 2.19 | 118.9 | 125.3 |
| 1971 | 2.19 | 4.51 | 3.34 | 2.40 | 2.15 | 2.07 | 113.2 | 121.3 |
| 1970 | 2.10 | 4.25 | 3.14 | 2.23 | 2.00 | 1.92 | 106.2 | 116.3 |
| 1969 | 2.09 | 4.09 | 3.00 | 2.10 | 1.90 | 1.83 | 102.8 | 109.8 |
| 1968 | 2.12 | 4.05 | 2.96 | 2.06 | 1.86 | 1.80 | 100.9 | 104.2 |
| 1967 | 2.17 | 4.03 | 2.95 | 2.07 | 1.89 | 1.83 | 100.0 | 100.0 |
| 1966 | 2.20 | 4.03 | 2.95 | 2.07 | 1.89 | 1.83 | 99.1 | 97.2 |
| 1965 | 2.25 | 4.00 | 2.94 | 2.07 | 1.89 | 1.83 | 99.1 | 94.5 |
| 1964 | 2.31 | 4.02 | 2.95 | 2.08 | 1.91 | 1.86 | 99.6 | 92.9 |
| 1963 | 2.37 | 4.03 | 2.97 | 2.12 | 1.93 | 1.89 | 100.1 | 91.7 |
| 1962 | 2.41 | 4.06 | 2.99 | 2.13 | 1.95 | .... | 100.1 | 90.6 |
| 1961 | 2.45 | 4.06 | 2.99 | 2.13 | .... | .... | 100.1 | 89.6 |
| 1960 | 2.47 | 4.05 | 2.98 | 2.13 | .... | .... | 99.8 | 88.7 |

*Alaska and Hawaii included since 1964.

**As determined by the Energy Information Admin. in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.

†"Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this index, see BLS Handbook of Methods, Bulletin #1711 for 1971.

‡The "Consumer Price Index" measures the average change in prices of goods and services purchased by urban wage-earners and clerical-worker families. Electricity is one of these components.

# TABLE 84
# PRODUCER PRICE INDEX – ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES
## YEAR 1967 Equals 100

| | All Items | | Metals and Metal Products | | Machinery and Equipment | | Furniture and Household Durables | | Fuels and Related Products and Power | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year |
| **1980** | **268.8** | **14.1** | **286.4** | **10.5** | **239.8** | **12.1** | **187.7** | **9.6** | **574.0** | **40.7** |
| 1979 | 235.6 | 12.6 | 259.3 | 14.2 | 213.9 | 9.1 | 171.3 | 6.8 | 408.1 | 26.5 |
| 1978 | 209.3 | 7.8 | 227.1 | 8.7 | 196.1 | 7.9 | 160.4 | 5.9 | 322.5 | 6.7 |
| 1977 | 194.2 | 6.1 | 209.0 | 6.7 | 181.7 | 6.3 | 151.5 | 4.1 | 302.2 | 13.8 |
| 1976 | 183.0 | 4.6 | 195.9 | 5.5 | 171.0 | 5.9 | 145.6 | 4.2 | 265.6 | 8.4 |
| 1975 | 174.9 | 9.2 | 185.6 | 8.0 | 161.4 | 15.8 | 139.7 | 9.2 | 245.1 | 17.7 |
| 1974 | 160.1 | 18.9 | 171.9 | 29.4 | 139.4 | 14.5 | 127.9 | 11.0 | 208.3 | 55.1 |
| 1973 | 134.7 | 13.1 | 132.8 | 7.5 | 121.7 | 3.2 | 115.2 | 3.4 | 134.3 | 13.8 |
| 1972 | 119.1 | 4.5 | 123.5 | 4.0 | 117.9 | 2.1 | 111.4 | 1.3 | 118.6 | 3.0 |
| 1971 | 114.0 | 3.3 | 118.7 | 1.8 | 115.5 | 3.7 | 110.0 | 2.3 | 115.2 | 8.5 |
| 1970 | 110.4 | 3.7 | 116.6 | 7.5 | 111.4 | 4.6 | 107.5 | 2.5 | 106.2 | 5.3 |
| 1969 | 106.5 | 3.9 | 108.5 | 5.8 | 106.5 | 3.2 | 104.9 | 2.0 | 100.9 | 2.0 |
| 1968 | 102.5 | 2.5 | 102.6 | 2.6 | 103.2 | 3.2 | 102.8 | 2.8 | 98.9 | (1.1) |
| 1967 | 100.0 | 0.1 | 100.0 | 1.2 | 100.0 | 3.3 | 100.0 | 2.0 | 100.0 | 2.2 |
| 1966 | 99.8 | 3.3 | 98.8 | 2.5 | 96.8 | 3.1 | 98.0 | 1.1 | 97.8 | 2.4 |
| 1965 | 96.6 | 2.0 | 96.4 | 2.8 | 93.9 | 1.1 | 96.9 | (0.5) | 95.5 | 1.9 |
| 1964 | 94.7 | 0.2 | 93.8 | 2.7 | 92.8 | 0.7 | 97.4 | 0.4 | 93.7 | (2.7) |
| 1963 | 94.5 | (0.3) | 91.3 | 0.1 | 92.2 | 0.1 | 97.0 | (0.7) | 96.3 | (0.4) |
| 1962 | 94.8 | 0.3 | 91.2 | (0.8) | 92.0 | 0.2 | 97.7 | (0.7) | 96.7 | (0.5) |
| 1961 | 94.5 | (0.4) | 91.9 | (0.6) | 91.9 | (0.1) | 98.4 | (0.7) | 97.2 | 1.1 |
| 1960 | 94.9 | 0.1 | 92.4 | 0.0 | 92.0 | 0.8 | 99.0 | (0.3) | 96.1 | 0.9 |
| 1959 | 94.8 | 0.2 | 92.3 | 2.1 | 91.3 | 2.0 | 99.3 | 0.2 | 95.2 | (0.1) |
| 1958 | 94.6 | 1.4 | 90.4 | (0.7) | 89.4 | 2.1 | 99.1 | 0.8 | 95.3 | (3.8) |
| 1957 | 93.3 | 2.9 | 91.0 | 2.0 | 87.6 | 7.0 | 98.3 | 2.6 | 99.1 | 5.5 |

| | Coal | | Gas Fuels | | Electric Power | | Crude Petroleum | | Petroleum Products, Refined | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year | Index | % Change from Previous Year |
| **1980** | **467.3** | **3.6** | **760.7** | **39.8** | **321.6** | **18.7** | **556.4** | **47.8** | **674.7** | **51.7** |
| 1979 | 450.9 | 4.9 | 544.1 | 26.9 | 270.9 | 8.1 | 376.5 | 25.4 | 444.8 | 38.6 |
| 1978 | 430.0 | 10.4 | 428.7 | 10.5 | 250.6 | 7.6 | 300.1 | 9.4 | 321.0 | 4.2 |
| 1977 | 389.4 | 5.6 | 387.8 | 35.2 | 232.9 | 12.1 | 274.2 | 8.1 | 308.2 | 11.4 |
| 1976 | 368.7 | (4.4) | 286.8 | 32.3 | 207.6 | 7.4 | 253.6 | 3.2 | 276.6 | 7.4 |
| 1975 | 385.8 | 16.1 | 216.7 | 33.6 | 193.4 | 18.6 | 245.7 | 16.0 | 257.5 | 15.3 |
| 1974 | 332.4 | 52.4 | 162.2 | 28.0 | 163.1 | 26.1 | 211.8 | 68.1 | 223.4 | 73.5 |
| 1973 | 218.1 | 12.5 | 126.7 | 11.0 | 129.3 | 6.4 | 126.0 | 10.7 | 128.7 | 18.2 |
| 1972 | 193.8 | 6.5 | 114.1 | 5.2 | 121.5 | 4.6 | 113.8 | (0.7) | 108.9 | 1.6 |
| 1971 | 182.0 | 21.1 | 108.5 | 4.7 | 116.2 | 9.7 | 114.6 | 8.0 | 107.2 | 6.1 |
| 1970 | 150.3 | 33.5 | 103.6 | 11.0 | 105.9 | 4.0 | 106.1 | 0.9 | 101.0 | 1.4 |
| 1969 | 112.6 | 8.6 | 93.3 | 0.5 | 101.8 | 0.9 | 105.2 | 4.4 | 99.6 | 1.5 |
| 1968 | 103.7 | 3.7 | 92.7 | (7.3) | 100.9 | 0.9 | 100.8 | 0.8 | 98.1 | (1.9) |
| 1967 | 100.0 | 4.7 | 100.0 | 3.5 | 100.0 | 0.4 | 100.0 | 1.1 | 100.0 | 2.7 |
| 1966 | 95.5 | 2.2 | 96.7 | 4.2 | 99.6 | (0.5) | 98.9 | 0.7 | 97.4 | 3.8 |
| 1965 | 93.4 | (0.4) | 92.8 | 2.3 | 100.1 | (0.3) | 98.2 | (0.1) | 93.8 | 3.4 |
| 1964 | 93.8 | 0.0 | 90.7 | (1.2) | 100.4 | (0.9) | 98.3 | (0.4) | 90.7 | (4.6) |
| 1963 | 93.8 | 0.1 | 91.8 | 2.9 | 101.3 | (0.8) | 98.7 | (0.4) | 95.1 | (1.0) |
| 1962 | 93.7 | (1.0) | 89.2 | 0.6 | 102.1 | 0.4 | 99.1 | 0.2 | 96.1 | (1.1) |
| 1961 | 94.6 | (1.0) | 88.7 | 1.7 | 101.7 | 0.5 | 98.9 | 0.3 | 97.2 | 1.8 |
| 1960 | 95.6 | (0.7) | 87.2 | 5.1 | 101.2 | 1.1 | 98.6 | (0.6) | 95.5 | 1.0 |
| 1959 | 96.3 | (0.2) | 83.0 | 9.1 | 100.1 | 0.4 | 99.2 | (3.3) | 94.5 | (0.5) |
| 1958 | 96.5 | (1.1) | 76.4 | ... | 99.7 | ... | 102.6 | 0.2 | 95.0 | (8.8) |
| 1957 | 97.6 | 8.6 | ... | ... | ... | ... | 102.4 | 10.3 | 104.1 | 7.1 |

( ) Denotes negative figure.
Source: U.S. Bureau of Labor Statistics.

# TABLE 85
# COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*
## BY GEOGRAPHIC DIVISIONS — 1960–1981
## 1949 EQUALS 100

| Date | North Atlantic | South Atlantic | North Central | South Central | Plateau | Pacific |
|---|---|---|---|---|---|---|
| Jan. 1, 1981 | 532 | 549 | 549 | 548 | 555 | 583 |
| July 1, 1980 | 505 | 516 | 516 | 518 | 521 | 542 |
| Jan. 1, 1980 | 487 | 500 | 500 | 499 | 507 | 518 |
| July 1, 1979 | 466 | 475 | 477 | 478 | 485 | 497 |
| Jan. 1, 1979 | 441 | 454 | 455 | 455 | 460 | 469 |
| July 1, 1978 | 421 | 432 | 434 | 432 | 439 | 449 |
| Jan. 1, 1978 | 409 | 421 | 418 | 419 | 427 | 436 |
| July 1, 1977 | 403 | 414 | 415 | 413 | 421 | 427 |
| Jan. 1, 1977 | 385 | 398 | 392 | 395 | 400 | 407 |
| July 1, 1976 | 379 | 387 | 384 | 387 | 391 | 392 |
| Jan. 1, 1976 | 367 | 377 | 372 | 373 | 374 | 379 |
| July 1, 1975 | 362 | 367 | 368 | 363 | 368 | 365 |
| Jan. 1, 1975 | 341 | 347 | 347 | 342 | 343 | 342 |
| July 1, 1974 | 313 | 313 | 317 | 311 | 310 | 311 |
| Jan. 1, 1974 | 276 | 275 | 275 | 269 | 270 | 272 |
| July 1, 1973 | 262 | 260 | 263 | 255 | 257 | 259 |
| Jan. 1, 1973 | 249 | 251 | 253 | 243 | 246 | 248 |
| July 1, 1972 | 245 | 247 | 248 | 237 | 242 | 244 |
| Jan. 1, 1972 | 241 | 238 | 247 | 232 | 236 | 241 |
| July 1, 1971 | 229 | 230 | 238 | 227 | 231 | 229 |
| Jan. 1, 1971 | 217 | 220 | 226 | 217 | 219 | 220 |
| July 1, 1970 | 212 | 213 | 221 | 213 | 211 | 215 |
| Jan. 1, 1970 | 203 | 206 | 212 | 204 | 206 | 207 |
| July 1, 1969 | 195 | 199 | 203 | 196 | 196 | 201 |
| Jan. 1, 1969 | 188 | 190 | 194 | 189 | 190 | 193 |
| July 1, 1968 | 184 | 184 | 187 | 185 | 186 | 189 |
| Jan. 1, 1968 | 182 | 183 | 186 | 183 | 185 | 188 |
| July 1, 1967 | 179 | 179 | 183 | 178 | 182 | 185 |
| Jan. 1, 1967 | 175 | 174 | 177 | 174 | 176 | 179 |
| July 1, 1966 | 172 | 173 | 175 | 171 | 173 | 177 |
| Jan. 1, 1966 | 169 | 169 | 171 | 168 | 171 | 173 |
| July 1, 1965 | 167 | 167 | 170 | 166 | 170 | 172 |
| Jan. 1, 1965 | 164 | 165 | 167 | 163 | 167 | 168 |
| July 1, 1964 | 162 | 163 | 165 | 161 | 165 | 166 |
| Jan. 1, 1964 | 159 | 161 | 163 | 159 | 162 | 163 |
| July 1, 1963 | 157 | 159 | 160 | 157 | 160 | 162 |
| Jan. 1, 1963 | 157 | 158 | 160 | 156 | 161 | 161 |
| July 1, 1962 | 157 | 159 | 161 | 157 | 162 | 161 |
| Jan. 1, 1962 | 155 | 157 | 160 | 156 | 160 | 160 |
| July 1, 1961 | 155 | 157 | 159 | 156 | 160 | 160 |
| Jan. 1, 1961 | 157 | 159 | 161 | 158 | 161 | 163 |
| July 1, 1960 | 160 | 161 | 164 | 161 | 164 | 166 |
| Jan. 1, 1960 | 158 | 160 | 162 | 159 | 163 | 162 |

*Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman Index service of cost indexes of construction and equipment, all steam.

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland, 21202.

# TABLE 86
# COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT
## U.S. AVERAGE 1973–1978

| Standard Industrial Classification | Industry | 1978 | 1977 | 1976 | 1975 | 1974 | 1973 |
|---|---|---|---|---|---|---|---|
| 20 | Food and Kindred Products | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.4 |
| 21 | Tobacco Manufactures | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |
| 22 | Textile Mill Products | 1.8 | 1.7 | 1.7 | 1.7 | 1.3 | 1.1 |
| 23 | Apparel and Other Textile Products | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 |
| 24 | Lumber and Wood Products | 1.0 | 1.0 | 1.0 | 1.1 | 0.8 | 0.7 |
| 25 | Furniture and Fixtures | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 |
| 26 | Paper and Allied Products | 3.1 | 3.0 | 2.7 | 2.7 | 2.3 | 2.2 |
| 27 | Printing and Publishing | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 |
| 28 | Chemicals and Allied Products | 2.8 | 2.7 | 2.6 | 2.5 | 2.1 | 2.0 |
| 29 | Petroleum and Coal Products | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 |
| 30 | Rubber and Miscellaneous Plastics Products | 1.7 | 1.6 | 1.5 | 1.6 | 1.3 | 1.2 |
| 31 | Leather and Leather Products | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 |
| 32 | Stone, Clay and Glass Products | 2.3 | 2.3 | 2.2 | 2.2 | 1.9 | 1.6 |
| 33 | Primary Metal Industries | 3.2 | 3.0 | 2.7 | 2.7 | 2.2 | 2.2 |
| 34 | Fabricated Metal Products | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 |
| 35 | Machinery, Except Electrical | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 |
| 36 | Electric and Electronic Equipment | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 |
| 37 | Transportation Equipment | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 |
| 38 | Instruments and Related Products | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.4 |
| 39 | Miscellaneous Manufacturing Industries | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |
|  | Total Manufacturing | 1.2 | 1.2 | 1.2 | 1.2 | 1.0 | 0.9 |

Source: U.S. Department of Commerce, Annual Survey of Manufactures. Fuels and Electric Energy Consumed (AS) 4, and Value of Product Shipments (AS) 2 for applicable years.

# TABLE 87
# WEIGHTED AVERAGE BILLS (DOLLARS)
## BY DIVISION AND CERTAIN CLASSES OF SERVICE
## 1979–1980

| | Residential Service | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | January 1, 1980 | | | | | January 1, 1979 | | | | |
| Division | 250 Kwh | 500 Kwh | 750 Kwh | 1,000 Kwh | 2,500 Kwh | 250 Kwh | 500 Kwh | 750 Kwh | 1,000 Kwh | 2,500* Kwh |
| New England | $18.87 | $33.82 | $43.82 | $57.63 | $132.33 | $15.75 | $24.55 | $34.54 | $45.32 | ... |
| Middle Atlantic | 20.29 | 36.62 | 47.43 | 63.08 | 147.52 | 18.12 | 29.89 | 41.14 | 54.88 | ... |
| East North Central | 14.73 | 26.65 | 35.05 | 44.16 | 98.96 | 13.68 | 22.19 | 31.90 | 42.14 | ... |
| West North Central | 13.92 | 25.62 | 33.89 | 44.22 | 91.72 | 13.01 | 21.82 | 31.22 | 40.74 | ... |
| South Atlantic | 15.05 | 26.26 | 36.20 | 46.68 | 105.87 | 13.38 | 22.43 | 31.21 | 40.38 | ... |
| East South Central | 11.49 | 20.09 | 28.48 | 37.19 | 85.41 | 10.38 | 17.62 | 25.51 | 33.39 | ... |
| West South Central | 13.86 | 23.84 | 31.67 | 40.88 | 85.34 | 12.52 | 19.93 | 27.84 | 35.89 | ... |
| Mountain | 14.79 | 25.45 | 34.22 | 44.32 | 95.19 | 13.41 | 21.93 | 30.50 | 39.39 | ... |
| Pacific | 10.96 | 21.16 | 31.59 | 43.68 | 112.73 | 10.27 | 19.29 | 29.45 | 39.60 | ... |
| Noncontiguous | 21.23 | 36.33 | 51.55 | 66.96 | 159.89 | 17.85 | 29.57 | 41.29 | 53.27 | ... |
| U.S. Average | $15.28 | $27.50 | $36.93 | $48.76 | $110.84 | $13.86 | $23.05 | $32.72 | $43.12 | ... |

| | Commercial Service | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | January 1, 1980 | | | | | January 1, 1979 | | | | |
| | 12 Kw | 30 Kw | 40 Kw | 50 Kw | 100 Kw | 12 Kw | 30 Kw | 40 Kw | 50 Kw* | 100 Kw* |
| | 1,500 Kwh | 6,000 Kwh | 10,000 Kwh | 12,500 Kwh | 30,000 Kwh | 1,500 Kwh | 6,000 Kwh | 10,000 Kwh | 12,500 Kwh | 30,000 Kwh |
| New England | $139.08 | $446.29 | $670.14 | $ 816.08 | $1,869.47 | $117.50 | $366.81 | $540.05 | ... | ... |
| Middle Atlantic | 176.91 | 550.64 | 829.39 | 1,034.00 | 2,282.09 | 155.21 | 477.90 | 715.98 | ... | ... |
| East North Central | 103.82 | 364.58 | 563.09 | 695.08 | 1,559.74 | 96.94 | 337.24 | 517.51 | ... | ... |
| West North Central | 94.62 | 323.74 | 497.13 | 690.78 | 1,390.26 | 88.55 | 304.53 | 463.81 | ... | ... |
| South Atlantic | 99.17 | 348.80 | 539.14 | 665.07 | 1,446.52 | 91.78 | 316.01 | 483.56 | ... | ... |
| East South Central | 75.58 | 270.91 | 429.34 | 533.95 | 1,200.64 | 68.61 | 241.38 | 385.67 | ... | ... |
| West South Central | 86.75 | 303.49 | 460.23 | 566.90 | 1,226.38 | 81.16 | 281.56 | 427.75 | ... | ... |
| Mountain | 94.90 | 348.94 | 538.03 | 657.22 | 1,411.45 | 88.89 | 310.42 | 479.46 | ... | ... |
| Pacific | 85.35 | 311.82 | 484.35 | 677.08 | 1,383.85 | 78.85 | 284.62 | 426.48 | ... | ... |
| Noncontiguous | 144.66 | 492.80 | 755.21 | 937.39 | 2,025.76 | 118.84 | 393.19 | 593.78 | ... | ... |
| U.S. Average | $114.05 | $385.46 | $589.57 | $ 746.24 | $1,624.26 | $102.91 | $343.93 | $521.09 | ... | ... |

| | Industrial Service | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | January 1, 1980 | | | | January 1, 1979 | | | |
| | 150 Kw | 300 Kw | 1,000 Kw | 5,000 Kw | 150 Kw | 300 Kw | 1,000 Kw | 5,000 Kw* |
| | 30,000 Kwh | 60,000 Kwh | 200,000 Kwh | 1,500,000 Kwh | 30,000 Kwh | 60,000 Kwh | 200,000 Kwh | 1,500,000 Kwh |
| New England | $1,838 | $3,553 | $11,362 | $ 76,379 | $1,459 | $2,794 | $ 8,851 | ... |
| Middle Atlantic | 2,536 | 5,034 | 16,261 | 100,849 | 2,141 | 4,246 | 13,621 | ... |
| East North Central | 1,658 | 3,183 | 10,038 | 61,191 | 1,521 | 2,904 | 9,144 | ... |
| West North Central | 1,421 | 2,786 | 8,800 | 52,764 | 1,307 | 2,560 | 8,074 | ... |
| South Atlantic | 1,590 | 3,100 | 10,031 | 54,337 | 1,409 | 2,690 | 8,498 | ... |
| East South Central | 1,368 | 2,670 | 8,205 | 49,994 | 1,226 | 2,390 | 7,432 | ... |
| West South Central | 1,360 | 2,621 | 8,170 | 51,683 | 1,246 | 2,398 | 7,467 | ... |
| Mountain | 1,540 | 2,943 | 9,040 | 57,135 | 1,350 | 2,578 | 7,926 | ... |
| Pacific | 1,479 | 2,904 | 9,162 | 68,777 | 1,287 | 2,525 | 7,978 | ... |
| Noncontiguous | 2,035 | 3,934 | 12,438 | 80,361 | 1,673 | 3,220 | 10,110 | ... |
| U.S. Average | $1,757 | $3,431 | $10,910 | $ 68,874 | $1,531 | $2,975 | $ 9,408 | ... |

*Data for this specification not collected prior to January 1, 1980.
Source: Energy Information Administration.

# TABLE 88

# CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE — TOTAL ELECTRIC UTILITY INDUSTRY

## BY STATE AND VOLTAGE GROUPS

| Division/State | Circuit Miles 1980 | 1979 | 1978 |
|---|---|---|---|
| **Total United States*** | **558,795** | **546,195r** | **538,439r** |
| Maine | 3,599 | 3,545 | 3,519 |
| New Hampshire | 2,227 | 2,197 | 2,186 |
| Vermont | 1,663 | 1,625 | 1,627 |
| Massachusetts | 5,184 | 5,155 | 5,141 |
| Rhode Island | 698 | 712 | 697 |
| Connecticut | 2,306 | 2,290 | 2,281 |
| **New England** | **15,677** | **15,524** | **15,451** |
| New York | 18,902 | 18,924 | 18,477 |
| New Jersey | 6,094 | 6,052 | 6,010 |
| Pennsylvania | 18,368 | 18,555 | 18,093 |
| **Middle Atlantic** | **43,364** | **43,531** | **42,580** |
| Ohio | 21,055 | 20,563 | 20,308 |
| Indiana | 15,772 | 15,726 | 15,373 |
| Illinois | 16,209 | 16,352 | 16,344 |
| Michigan | 17,864 | 17,581 | 17,352 |
| Wisconsin | 10,042 | 10,234 | 10,298 |
| **East North Central** | **80,942** | **80,456** | **79,675** |
| Minnesota | 10,369 | 10,034 | 9,905 |
| Iowa | 10,881 | 10,751 | 10,499 |
| Missouri | 11,497 | 11,452 | 11,426 |
| North Dakota | 6,731 | 6,783 | 6,733 |
| South Dakota | 6,660 | 6,551 | 6,561 |
| Nebraska | 8,704 | 8,405 | 8,292 |
| Kansas | 9,800 | 10,561 | 10,501 |
| **West North Central** | **64,642** | **64,537** | **63,917** |
| Delaware | 2,267 | 2,262 | 2,269 |
| Maryland and D.C. | 8,508 | 8,469 | 8,442 |
| Virginia | 11,844 | 11,148 | 10,640 |
| West Virginia | 6,999 | 6,929 | 6,771 |
| North Carolina | 19,074 | 18,635 | 18,441 |
| South Carolina | 19,159 | 18,869 | 18,614 |
| Georgia | 21,944 | 20,501 | 20,157 |
| Florida | 13,948 | 13,537 | 13,273 |
| **South Atlantic** | **103,743** | **100,350** | **98,607** |
| Kentucky | 10,758 | 9,979 | 9,682 |
| Tennessee | 21,890 | 19,664 | 19,340 |
| Alabama | 13,322 | 13,009 | 12,713 |
| Mississippi | 11,655 | 11,369 | 11,279 |
| **East South Central** | **57,625** | **54,021** | **53,014** |
| Arkansas | 6,640 | 6,761 | 6,790 |
| Louisiana | 10,332 | 10,389 | 9,843 |
| Oklahoma | 9,860 | 9,648 | 9,584 |
| Texas | 40,467 | 38,004 | 37,209 |
| **West South Central** | **67,299** | **64,802** | **63,426** |
| Montana | 9,643 | 9,429 | 9,442 |
| Idaho | 10,559 | 10,344 | 10,083 |
| Wyoming | 4,884 | 4,809 | 4,717 |
| Colorado | 6,523 | 6,782 | 6,294 |
| New Mexico | 5,681 | 5,652 | 5,595 |
| Arizona | 10,611 | 10,309 | 10,113 |
| Utah | 5,753 | 5,634 | 5,500 |
| Nevada | 6,436 | 5,852 | 5,783 |
| **Mountain** | **60,090** | **58,811** | **57,527** |
| Washington | 16,253 | 15,623r | 15,612r |
| Oregon | 10,079 | 9,967 | 10,060 |
| California | 37,551 | 37,099 | 37,119 |
| **Pacific** | **63,883** | **62,689r** | **62,791r** |
| Alaska | 85 | 52 | 52 |
| Hawaii | 1,445 | 1,422 | 1,399 |
| **Alaska & Hawaii** | **1,530** | **1,474** | **1,451** |

| Nominal Voltage | Circuit Miles 1980 | 1979 | 1978 |
|---|---|---|---|
| **Total** | **558,795** | **546,195r** | **538,439r** |
| 22,000– 30,000 | 68,345 | 64,843 | 63,212 |
| 31,000– 40,000 | 58,572 | 61,226 | 60,115 |
| 41,000– 50,000 | 44,490 | 35,835 | 35,665 |
| 51,000– 70,000 | 99,695 | 100,358 | 100,058 |
| 71,000–131,000 | 86,994 | 90,541 | 90,046 |
| 132,000–143,000 | 61,693 | 60,950 | 60,279 |
| 144,000–188,000 | 22,779 | 21,760 | 21,620 |
| 189,000–253,000 | 60,012 | 58,474r | 56,755r |
| 254,000–400,000 | 35,451 | 33,164 | 32,167 |
| 401,000–600,000 | 17,687 | 16,257 | 15,805 |
| 601,000–800,000 | 3,077 | 2,787 | 2,717 |

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*Does not include the following miles of line operated by REA Co-operatives: 1980 — 65,700; 1979 — 64,000; 1978 — 62,200.

r Revised.

# TABLE 89

# CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE — INVESTOR-OWNED ELECTRIC UTILITIES

## BY STATE AND VOLTAGE GROUPS

| Division/State | Circuit Miles 1980 | 1979 | 1978 |
|---|---|---|---|
| **Total United States** | **454,328** | **447,954** | **442,266** |
| Maine | 3,574 | 3,545 | 3,519 |
| New Hampshire | 2,227 | 2,197 | 2,186 |
| Vermont | 1,632 | 1,625 | 1,627 |
| Massachusetts | 5,158 | 5,150 | 5,136 |
| Rhode Island | 698 | 712 | 697 |
| Connecticut | 2,272 | 2,256 | 2,247 |
| **New England** | **15,561** | **15,485** | **15,412** |
| New York | 17,735 | 17,817 | 17,433 |
| New Jersey | 6,084 | 6,042 | 6,000 |
| Pennsylvania | 18,368 | 18,555 | 18,093 |
| **Middle Atlantic** | **42,187** | **42,414** | **41,526** |
| Ohio | 20,999 | 20,533 | 20,278 |
| Indiana | 15,732 | 15,685 | 15,334 |
| Illinois | 16,006 | 16,206 | 16,236 |
| Michigan | 17,787 | 17,545 | 17,316 |
| Wisconsin | 9,998 | 10,218 | 10,281 |
| **East North Central** | **80,522** | **80,187** | **79,445** |
| Minnesota | 10,007 | 9,792 | 9,689 |
| Iowa | 10,397 | 10,473 | 10,221 |
| Missouri | 10,615 | 10,591 | 10,557 |
| North Dakota | 4,716 | 4,561 | 4,511 |
| South Dakota | 3,399 | 3,349 | 3,358 |
| Nebraska | 94 | 94 | 94 |
| Kansas | 9,687 | 9,590 | 10,329 |
| **West North Central** | **48,915** | **48,450** | **48,759** |
| Delaware | 2,247 | 2,262 | 2,269 |
| Maryland and D.C. | 8,508 | 8,469 | 8,442 |
| Virginia | 11,032 | 10,362 | 9,861 |
| West Virginia | 6,999 | 6,929 | 6,771 |
| North Carolina | 18,594 | 18,298 | 18,118 |
| South Carolina | 16,524 | 15,990 | 15,819 |
| Georgia | 18,118 | 17,931 | 17,703 |
| Florida | 11,104 | 10,829 | 10,652 |
| **South Atlantic** | **93,126** | **91,070** | **89,635** |
| Kentucky | 7,090 | 6,510 | 6,375 |
| Tennessee | 232 | 228 | 224 |
| Alabama | 9,444 | 9,468 | 9,372 |
| Mississippi | 9,046 | 8,879 | 8,877 |
| **East South Central** | **25,812** | **25,085** | **24,848** |
| Arkansas | 5,991 | 6,112 | 6,141 |
| Louisiana | 10,150 | 10,370 | 9,824 |
| Oklahoma | 7,765 | 7,553 | 7,489 |
| Texas | 36,952 | 34,688 | 34,018 |
| **West South Central** | **60,858** | **58,723** | **57,472** |
| Montana | 7,465 | 7,395 | 7,419 |
| Idaho | 9,896 | 9,648 | 9,386 |
| Wyoming | 2,878 | 2,853 | 2,761 |
| Colorado | 4,123 | 4,340 | 3,764 |
| New Mexico | 5,129 | 5,011 | 4,947 |
| Arizona | 6,403 | 6,361 | 6,394 |
| Utah | 5,578 | 5,458 | 5,324 |
| Nevada | 4,410 | 4,183 | 4,068 |
| **Mountain** | **45,882** | **45,249** | **44,063** |
| Washington | 4,090 | 4,066 | 4,016 |
| Oregon | 5,456 | 5,358 | 5,349 |
| California | 30,472 | 30,443 | 30,340 |
| **Pacific** | **40,018** | **39,867** | **39,705** |
| Alaska | 2 | 2 | 2 |
| Hawaii | 1,445 | 1,422 | 1,399 |
| **Alaska & Hawaii** | **1,447** | **1,424** | **1,401** |

| Nominal Voltage | Circuit Miles 1980 | 1979 | 1978 |
|---|---|---|---|
| **Total** | **454,328** | **447,954** | **442,266** |
| 22,000– 30,000 | 48,004 | 47,004 | 46,276 |
| 31,000– 40,000 | 55,319 | 55,361 | 54,728 |
| 41,000– 50,000 | 38,337 | 31,914 | 31,740 |
| 51,000– 70,000 | 84,468 | 86,105 | 85,805 |
| 71,000–131,000 | 69,889 | 73,375 | 73,181 |
| 132,000–143,000 | 58,334 | 57,794 | 57,179 |
| 144,000–188,000 | 10,207 | 9,315 | 9,164 |
| 189,000–253,000 | 45,155 | 44,567 | 43,040 |
| 254,000–400,000 | 30,943 | 29,636 | 28,630 |
| 401,000–600,000 | 11,594 | 10,805 | 10,515 |
| 601,000–800,000 | 2,078 | 2,078 | 2,008 |

# TABLE 90
# AVERAGE NUMBER OF EMPLOYEES—INVESTOR-OWNED ELECTRIC UTILITIES
## ELECTRIC DEPARTMENT

| Year | Operation and Maintenance | Construction | Total |
|---|---|---|---|
| **1980** | **368,400** | **108,200** | **476,600** |
| 1979 | 356,200 | 106,800 | 463,000 |
| 1978 | 341,500 | 103,000 | 444,500 |
| 1977 | 326,800 | 99,700 | 426,500 |
| 1976 | 317,600 | 99,100 | 416,700 |
| 1975 | 310,500 | 101,000 | 411,500 |
| 1974 | 311,700 | 107,400 | 419,100 |
| 1973 | 307,200 | 107,900 | 415,100 |
| 1972 | 299,200 | 102,300 | 401,500 |
| 1971 | 295,200 | 98,500 | 393,700 |
| 1970 | 290,200 | 94,700 | 384,900 |
| 1969 | 282,600 | 89,900 | 372,500 |
| 1968 | 279,300 | 86,000 | 365,300 |
| 1967 | 275,500 | 81,900 | 357,400 |
| 1966 | 271,000 | 78,100 | 349,100 |
| 1965 | 268,400 | 77,000 | 345,400 |
| 1964 | 268,600 | 72,900 | 341,500 |
| 1963 | 268,700 | 70,800 | 339,500 |
| 1962 | 268,900 | 70,900 | 339,800 |
| 1961 | 272,000 | 71,000 | 343,000 |
| 1960 | 274,500 | 71,400 | 345,900 |

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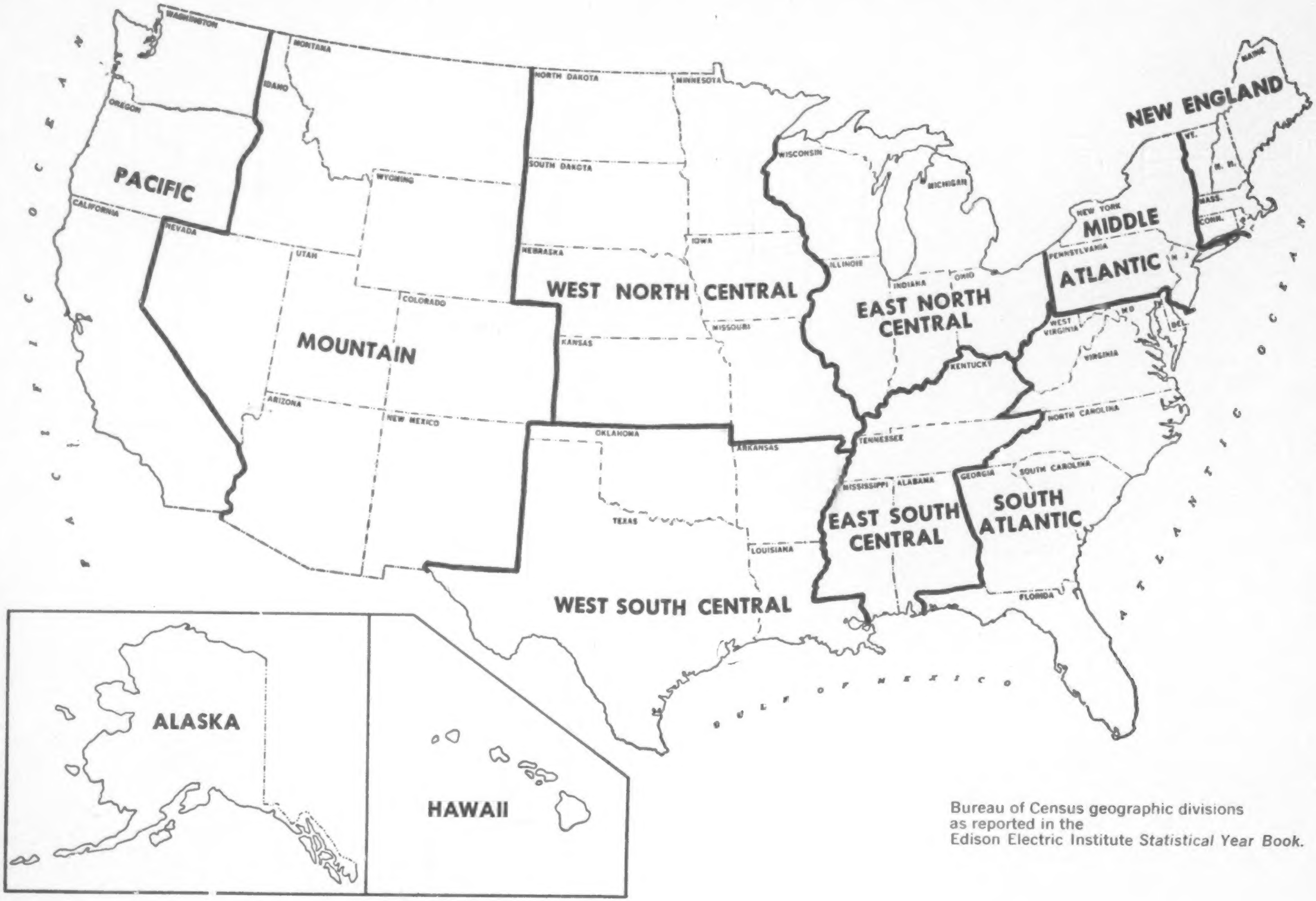

Bureau of Census geographic divisions
as reported in the
Edison Electric Institute *Statistical Year Book.*

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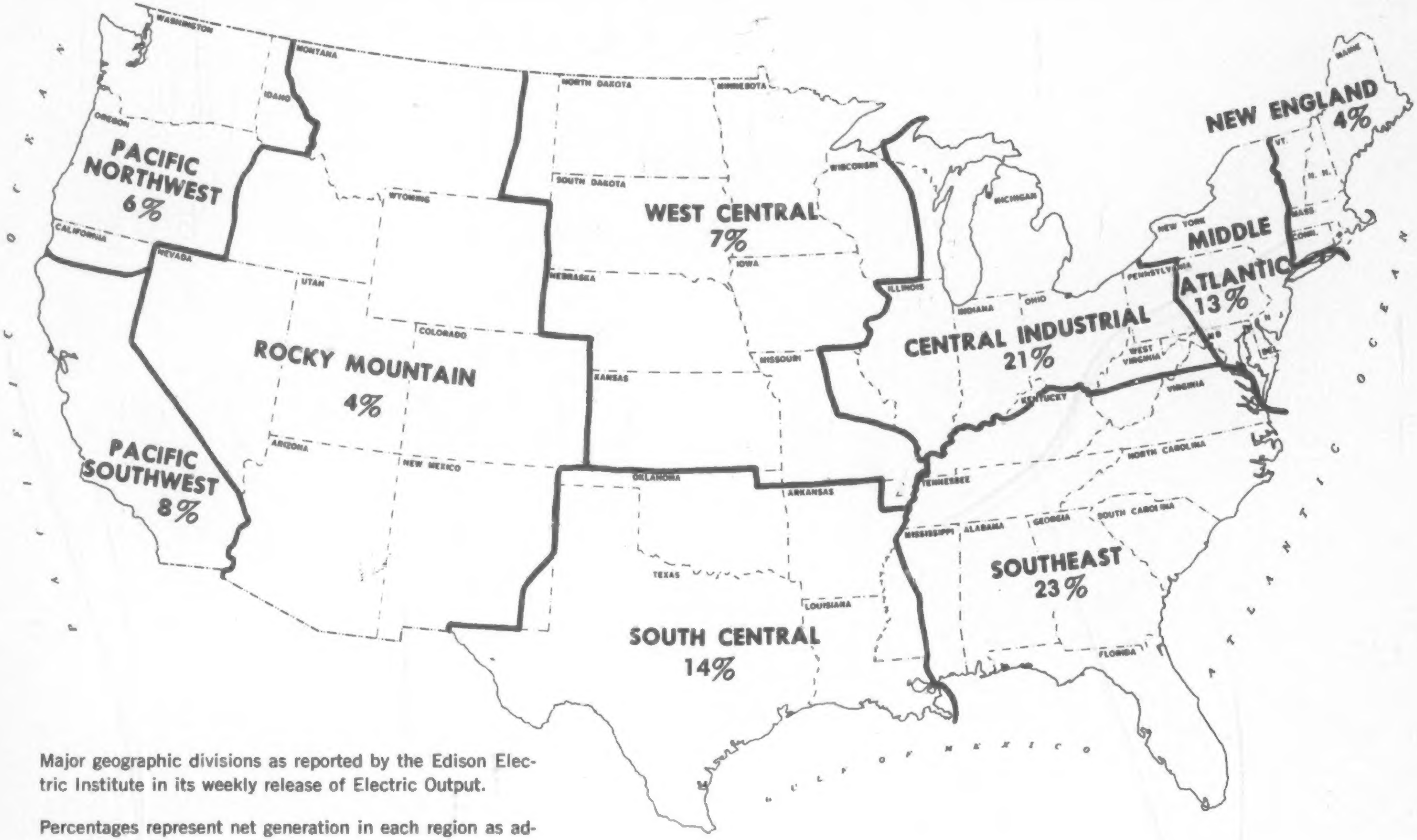

Major geographic divisions as reported by the Edison Electric Institute in its weekly release of Electric Output.

Percentages represent net generation in each region as adjusted for net imports.

January 1, 1981

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